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Bibliography

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INUM: 00187
AUTH: HELLER R.B.
CLSS: U
CORP: WEAPONS SYSTEMS EVALUATION GROUP (ARLINGTON-VA)
DATE: 6102
DESC: Nuclear Weapon Environment radiation decay beta decay L1
DESC: Solid Mechanics L1
DESC: THEORY
REPN: WSEG RM 19
SUJO: 2-223-430 ; 9-200-000
TITL: ENERGY AND TIME BETA RAY SPECTRA OF FISSION PRODUCTS OF U-235 BY
FISSION NEUTRONS AND U-238 BY 14 MEV NEUTRONS (U), 56 P (U)

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INUM: 00224
AUTH: DYCE R.B. ; JOHNSON G.L.
CLSS: S 1
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6111
DESC: SATELLITE ; EXPERIMENTAL
DESC: nuclear test detection trapped radiation L1 EXTRA STRATOSPHERIC
OBSERVATION
REPN: SRI 1 221
SUJO: 4-910-700
TEMP: 23087
TITL: PRELIMINARY PROGRESS REPORT ON SPECIAL INJUN I DATA STUDY (U), 9 P
(S)

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INUM: 00226
AUTH: DYCE R.B.
CLSS: C
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6111

DESC: SATELLITE ; EXPERIMENTAL
DESC: nuclear test detection trapped radiation L1 EXTRA STRATOSPHERIC
OBSERVATION
REPN: SRI 1 270
SUJO: 4-910-700
TEMP: 23269
TITL: PRELIMINARY PROGRESS REPORT NUMBER 2 ON SPECIAL INJUN I DATA STUDY
(U), 14 P (C)

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INUM: 00313
ADNO: 219127
AUTH: SUESS H.E.
CLSS: U
CONN: NONR 2216 01
CORP: SCRIPPS INSTITUTION OF OCEANOGRAPHY
DATE: 5901
DESC: SUMMARY
DESC: Nuclear Warfare Postattack Recovery resources air quality L5
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L5
SUJO: 2-223-410 ; 3-448-300
TITL: RADIOACTIVITY OF THE ATMOSPHERE AND HYDROSPHERE, ANNUAL REVIEW OF
NUCLEAR SCIENCE, VOL. 8 (U), 14 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00328
AUTH: HENDRICK R.W. JR.
CLSS: SRD 1
CONN: AF 18 (600) 1808
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6010
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
DESC: IR DETECTORS THERMAL NUCLEAR RADIATION PERMANENT DAMAGE ; SUMMARY
THEORY
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
REPN: RM 60 TMP 75

SHOT: TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 1-210-000 ; 1-240-000 ; 3-133-000 ; 3-223-000
TEMP: 17015
TITL: EFFECTS OF SPACE WEAPONS ON INFRARED SYSTEMS (U), 56 P (SRD)
TREE: 361

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INUM: 00336
AUTH: HENDRICK R.W. JR.
CLSS: SRD 1
CONN: DA 36 039 SC 85236
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6003
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Effects space systems L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: NUCLEAR RADIATION TRANSIENTS X-RAY NUCLEAR RADIATION PERMANENT
DAMAGE VHF UHF MICROWAVE ; THEORY
DESC: Nuclear Weapon Effects Communications Systems VHF UHF SHF satellite
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
REPN: RM 60 TMP 17
SUJO: 1-110-000 ; 1-210-000 ; 1-610-000 ; 1-710-000 ; 2-150-000 ;
2-321-100 ; 2-322-310 ; 3-114-000
TEMP: 13526
TITL: COMMUNICATION SATELLITE ENVIRONMENT, NUCLEAR DETONATION DISTURBANCES
(U), 35 P(SRD)
TREE: 393

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INUM: 00370
AUTH: HAMMAN D.J. ; CHAPIN W.E. ; HANKS C.L. ; WYLER E.N.

CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6106
DESC: NUCLEAR RADIATION PERMANENT DAMAGE ; SUMMARY
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects materials ceramics optical L1
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
REPN: REIC 18
SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-241-000 ;
3-244-000
TITL: EFFECT OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS (U), 144 P (U)
TREE: 300

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INUM: 00440
AUTH: ROCHLIN R.S.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY (SCHENECTADY-NY)
DATE: 5909
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L9 P 111
DESC: EXPLORER 4 (SATELLITE) ; THEORY EXPERIMENTAL BIBLIOGRAPHY
DESC: nuclear test detection visible light detection L9 P 95 P 105
DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L1
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Solar Phenomena L1
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
DESC: Nuclear Weapon Effects on animals thermal L1
REPN: 59 GL 211
SHOT: TEAK ; ORANGE
SUJO: 2-211-000 ; 2-215-000 ; 2-321-100 ; 3-312-000 ; 3-313-000 ;
4-910-900 ; 5-738-000 ; 5-800-000 ; 5-900-000
TITL: IONIZING RADIATION IN SPACE, NO. 4 (U), 177 P (U)

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INUM: 00441
AUTH: ROCHLIN R.S.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY (SCHENECTADY-NY)
DATE: 5905
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: THEORY EXPERIMENTAL
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: 59 GL 112
SUJO: 2-211-000 ; 5-800-000
TITL: IONIZING RADIATION IN SPACE, NO. 3 (U), 195 P (U)

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INUM: 00483
AUTH: BEAVERS J.L. II ; ALLEN L. JR. ; DENNIS J.L. ; WELCH J.A. JR. ;
WALTON R.B. ; WHITAKER W.A.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 5901
DESC: nuclear test detection trapped radiation L1
DESC: ROCKET OBSERVATION FLORAL JASON ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: test instruments nuclear radiation beta electron beams L1
REPN: SWC 59 TS 008
SHOT: ARGUS I ; ARGUS II ; TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-344-000 ; 4-910-700 ; 5-800-000
TEMP: 23797
TITL: CLASSIFIED TITLE (U), 114 P (SRD)

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INUM: 00511
AUTH: BELL J.E. ; WALKER K.R.
CLSS: U
CONN: AF 29 (601) 2538
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA)
DATE: 6105
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: TREE ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
REPN: AFSWC TR 61 40 ; SWC TR 61 40
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000
TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN
BASIC ELECTRONIC CIRCUITS, FINAL REPORT (U), 275 P (U)

TREE: 330

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INUM: 00518
AUTH: KNECHT D.J.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6008
DESC: test instruments nuclear radiation beta electron beams L1
DESC: test instruments nuclear radiation gamma L1
DESC: FLIGHT SCHEDULE FOR PROBES ; SUMMARY
REPN: AFSWC TN 60 24 ; SWC TN 60 24
SUJO: 4-341-000 ; 4-344-000
TITL: OUTLINE OF THE EXPERIMENTAL PROGRAM IN SPACE PHYSICS OF THE AFSWC
PHYSICS DIVISION (U), 16 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00519
AUTH: WELCH J.A. JR.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6009
DESC: THEORY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped

Radiation Particle Fluxes Space Radiation L1

REPN: AFSWC TN 60 29 ; SWC TN 60 29
SUJO: 5-800-000
TITL: THEORY OF GEOMAGNETICALLY TRAPPED PARTICLES, PART I SCATTERING LOSS
OF GEOMAGNETICALLY TRAPPED PARTICLES, PART II CONFIGURATION OF THE
EARTHS RADIATION BELTS (U), 29 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00523

AUTH: HOCK D.C.

CLSS: U

CONN: AF 29 (601) 2348

CORP: RADIATION INCORPORATED (ORLANDO-FL) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NM)

DATE: 6012

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1

DESC: THEORY

REPN: AFSWC TR 60 57 ; SWC TR 60 57

SUJO: 5-800-000

TITL: PHYSICS OF THE VAN ALLEN RADIATION BELTS (U), 111 P (U)

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INUM: 00538

AUTH: NADLER M.R. ; HOFFMAN P.R.

CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6006

DESC: Nuclear Weapon Effects reentry systems RV L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L5

DESC: TREE NUCLEAR WARHEADS RF ENERGY ; SUMMARY

DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1

REPN: AFSWC TN 60 18 ; SWC TN 60 18

SUJO: 3-113-000 ; 3-161-000 ; 4-836-000

TEMP: 23908

TITL: VULNERABILITY OF ENEMY NUCLEAR WARHEADS TO RF RADIATION (U), 18 P
(SRD)

TREE: 397

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INUM: 00552
ADNO: 359243
AUTH: YORK E.N.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6001
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Radiation Transport neutron L1
DESC: THEORY
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
REPN: AFSWC TN 59 37 ; SWC TN 59 37
SUJO: 1-110-000 ; 1-710-000 ; 9-640-000 ; 9-650-000
TEMP: 23898
TTTL: INITIAL NUCLEAR RADIATION INFORMATION FOR CALCULATING BIOLOGICAL
DOSAGE FROM LOW-YIELD NUCLEAR WEAPONS (U), 12 P (SRD)

TREE: 910 ; 920
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INUM: 00554
AUTH: ERMA V.A. ; RUHLIG A.J.
CLSS: SRD 1
CONN: AF 29 (601) 1015
CORP: AERONUTRONIC DIVISION OF PHILCO CORPORATION (NEWPORT BEACH-CA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6003
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: THEORY
REPN: AFSWC TR 59 35 SUPP 1 ; SWC TR 59 35 SUPP 1
SUJO: 2-420-000
TEMP: 23871 SUPPL 1
TTTL: RADIATION FROM ARGUS ELECTRONS (U), 45 P (SRD)

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INUM: 00555
ADNO: 369265
AUTH: WISER H.L. ; PERKINS C.W. ; ROSENFELD J.
CLSS: SRD 1
CONN: AF 29 (601) 1259
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 5907
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: TREE ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
REPN: AFSWC TR 59 33 ; SWC TR 59 33
TSHO: HI ALT
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 3-221-000 ;
3-222-000 ; 3-229-000
TEMP: 23870
TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONICS (U), 112 P (SRD)
TREE: 100

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INUM: 00557
AUTH: REIFFEL L.
CLSS: SRD 1
CCDE: ZZ (RADIATION DEPOSITION)
CONN: AF 29 (601) 1164
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL) ;
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 5906
DESC: Cross Sections x-ray L1
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L1
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt
neutron L1
DESC: THEORY CODE

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1
REPN: AFSWC TR 59 39 VOL 2 ; SWC TR 59 39 VOL 2
SUJO: 2-312-300 ; 2-312-400 ; 2-629-000 ; 9-840-000
TEMP: 23874 VOL 2
TITL: STUDY OF LUNAR RESEARCH FLIGHTS, VOLUME II (U), CIRCA 150 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00560

ADNO: 369269

AUTH: BRUECKNER K.A. ; COOK C.W. ; GOLDBERGER M.L. ; HAMLIN D.A. ; KARPLUS
R. ; KAUFMAN A. ; NORTHROP T.G. ; PAPPERT R.A. ; VIK R.C. ; WATSON
K.M.

CLSS: SRD 1

CONN: AF 29 (601) 1150

CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NM)

DATE: 5910

DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1

DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1

DESC: THEORY

DESC: Fluid Mechanics hydrodynamics L1

REPN: AFSWC TR 59 59 ; SWC TR 59 59

TSHO: HI ALT

SUJO: 2-110-000 ; 2-150-000 ; 2-211-000 ; 2-420-000 ; 2-530-000 ;
5-800-000 ; 9-410-000

TEMP: 23877

TITL: PHYSICS OF NUCLEAR EXPLOSIONS IN SPACE (U), 364 P (SRD)

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INUM: 00585

ADNO: 356968

AUTH: ZADOFF L. ; BERNSTEIN M.
CLSS: SRD 1
CONN: AF 29 (601) 2324
CORP: REPUBLIC AVIATION CORPORATION (FARMINGDALE-NY) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-MM)
DATE: 6102
DESC: Solid Mechanics L1
DESC: Radiation Transport plasma L1
DESC: THEORY
REPN: AFSWC TR 61 1 VOL 3 ; SWC TR 61 1 VOL 3
SUJO: 9-200-000 ; 9-660-000
TEMP: 23951 VOL 3
TITL: THEORETICAL STUDIES IN THE MOTION OF BOMB DEBRIS, VOLUME III (U), 48
P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00586
AUTH: BURGREN D. ; MENKES S.B.
CLSS: SRD 1
CONN: AF 29 (601) 2827
CORP: UNITED NUCLEAR CORPORATION (ELMSFORD-NY)
DATE: 6107
DESC: THERMAL BLAST AND SHOCK NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1
REPN: AFSWC TR 61 41 ; SWC TR 61 41
SUJO: 3-161-000
TEMP: 23920
TITL: CLASSIFIED TITLE (U), 107 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00592
AUTH: WHITAKER W.A.
CLSS: SRD 1
CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NM)
DATE: 5908
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1
DESC: SPACESHARE CONFERENCE PROCEEDINGS ; SUMMARY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped

Radiation Particle Fluxes Space Radiation L1

DESC: Nuclear Energy Peaceful Applications basic physical measurements
nuclear cross sections L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

REPN: SWR TM 59 5

SUJO: 2-211-000 ; 2-510-000 ; 2-530-000 ; 3-486-000 ; 5-800-000

TEMP: 23925

TITL: SPACESHARE, PROCEEDINGS OF THE CONFERENCE ON THE PEACEFUL USES OF
NUCLEAR WEAPONS IN SPACE, AUGUST 10 15, 1959, HELD AT UNITED STATES
AIR FORCE ACADEMY, COLORADO SPRINGS, COLORADO (U), 110 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00600

AUTH: SCHRAG R.L.

CLSS: U

CONN: DA 49 146 XZ 067

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)

DATE: 6108

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1

DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L1

DESC: ARTIFICIAL AURORA ; THEORY

REPN: SRI PROJ 3644 ; SPECIAL REPORT 1

SUJO: 5-738-000 ; 5-800-000

TITL: PROBLEMS RELATED TO THE PROJECTION OF A SOFT, HIGH-CURRENT ELECTRON
BEAM ALONGTHE EARTH'S MAGNETIC LINES USING A ROCKET-BORNE
ACCELERATOR, SPECIAL REPORT 1 (U), 43 P (U)

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INUM: 00711

AUTH: WESLEY J.P.

CLSS: CFRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6104

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

DESC: THEORY
EMPF: 221
REPN: UCRL 5157 (REV)
TSHO: HI-ALT
SUJO: 2-510-000
TEMP: B8499
TITL: THEORY OF ELECTROMAGNETIC FIELD FROM A HIGH-ALTITUDE SHOT (U), 36 P
(U)

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INUM: 00712
AUTH: NAKADA P.
CLSS: SFRD 1
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 5905
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: THEORY
REPN: UCRL 5585
SUJO: 2-420-000
TEMP: 25218
TITL: SYNCHROTRON RADIATION FROM ARGUS ELECTRONS (U), 32 P (SFRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 00748
AUTH: ALTSHULER T.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY)
DATE: 6002
DESC: THEORY
DESC: Radiation Transport IR L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
REPN: R 59 ELC 115
SUJO: 5-200-000 ; 9-670-000
TITL: ATMOSPHERIC TRANSMISSION OF INFRARED (U), 29 P (U)

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copy: 1 id: 37871-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent
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INUM: 00749
AUTH: ELLIOTT F.E. ; ALTSHULER T.L.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY)
DATE: 6002
DESC: THEORY
DESC: Radiation Transport IR L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
REPN: R 60 ELC 16
SUJO: 5-200-000 ; 9-670-000
TITL: TRANSMISSION OF INFRARED THROUGH CLOUDY ATMOSPHERES (U), 28 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00822
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6108
DESC: SURVEY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: REIC 8 C
SUJO: 4-140-000
TEMP: 25437
TITL: NUCLEAR RADIATION EFFECTS PROJECTS (U), 80 P (U)
TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00823
CLSS: SRD 1
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 5907
DESC: Nuclear Weapon Effects materials plastics resins L1 X RAYS
DESC: Nuclear Weapon Effects materials metals alloys L5
DESC: GAMMA ELECTRON PERMANENT DAMAGE CONVENTIONAL SIMULATION ; SUMMARY
DESC: Nuclear Weapon Effects materials fibers textiles L5 COTTON
REPN: REIC 3 C

SUJO: 3-242-000 ; 3-243-000 ; 3-244-000
TEMP: 25436
TITL: DOSE-RATE EFFECTS IN RADIATION DAMAGE (U), 20 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00824
CLSS: SRD 1
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6105
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
DESC: Simulation Facilities Techniques TREE L5
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources 61 PULSED REACTOR DESCRIPTIONS
DESC: Simulation Facilities Techniques x-ray effects L5
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: NEUTRON GAMMA TRANSIENTS PERMANENT DAMAGE CONVENTIONAL SIMULATION ;
EXPERIMENTAL BIBLIOGRAPHY
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
REPN: REIC 6 C
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 2-223-300 ;
3-219-000 ; 3-221-000 ; 3-229-000 ; 4-231-000 ; 4-241-000 ;
4-272-000

TEMP: 25434
TITL: EFFECTS OF NUCLEAR-WEAPON BURSTS AND SIMULATED BURSTS ON ELECTRONIC
COMPONENTS(U), 128 P (SRD)
TREE: 100

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created: 12/27/1991 type: REPORT permanent
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INUM: 00830
AUTH: RICHARDS P.I.

CLSS: U
CCDE: TECH OPS 2D HYDRO
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)
DATE: 6107
DESC: Radiation Transport gamma L5
DESC: 100 KRT
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1
REPN: TO B 61 41
SUJO: 2-611-000 ; 9-620-000
TITL: STUDY OF BOMB DEBRIS EFFECTS, SECOND PROGRESS REPORT (15 MAY TO 15
JULY 1961) (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00831
AUTH: RICHARDS P.I.
CLSS: U
CCDE: TECH OPS 2D HYDRO
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)
DATE: 6109
DESC: Radiation Transport gamma L5
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5
REPN: TO B 61 53
SUJO: 2-160-000 ; 9-620-000
TITL: STUDY OF BOMB DEBRIS EFFECTS, THIRD PROGRESS REPORT (15 JULY TO 15
SEPTEMBER 1961) (U), 27 P., (U)

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copy: 1 id: 37899-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00832
AUTH: RICHARDS P.I.
CLSS: U
CCDE: TECH OPS 2D HYDRO
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)
DATE: 6111
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5
DESC: Radiation Transport gamma L5
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L1
REPN: TO B 61 67

SUJO: 2-160-000 ; 2-611-000 ; 2-612-000 ; 9-620-000
TITL: STUDY OF BOMB DEBRIS EFFECTS, FOURTH PROGRESS REPORT (15 SEPTEMBER
TO 15 NOVEMBER 1961) (U), 16 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 00845
ADNO: 210766
AUTH: OESTMANN M.J. ; KIRCHER J.F.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 5903
DESC: test instruments nuclear radiation neutron L1
DESC: SURVEY
DESC: test instruments nuclear radiation gamma L1
REPN: REIC 6 (ADDENDUM)
SUJO: 4-341-000 ; 4-342-000
TITL: SURVEY OF CURRENT RESEARCH AND DEVELOPMENTS IN THE FIELD OF
DOSIMETRY, FIRST ADDENDUM (U), 16 P (U)

TREE: 655
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copy: 1 id: 37904-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00848
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6106
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: REIC 22
SUJO: 4-140-000
TITL: RADIATION EFFECTS STATE OF THE ART, 1960-1961 (U), 52 P (U)
TREE: 642

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copy: 1 id: 37905-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00849
AUTH: KING R.W. ; BROADWAY N.J. ; PALINCHAK S.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6109
DESC: Nuclear Weapon Effects materials plastics resins L1 GAMMA NEUTRON
PERMANENT DAMAGE CONVENTIONAL SIMULATION
DESC: SUMMARY EXPERIMENTAL
REPN: REIC 21
SUJO: 3-244-000
TITL: EFFECT OF NUCLEAR RADIATION ON ELASTOMERIC AND PLASTIC COMPONENTS
AND MATERIALS (U), CIRCA 375 P (U)

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copy: 1 id: 37906-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00850
AUTH: SHOBER F.R.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6109
DESC: SUMMARY TABULAR
DESC: Nuclear Weapon Effects materials metals alloys L1 STEEL ZIRCONIUM
NICKEL COPPER BERYLLIUM ALUMINUM MAGNESIUM NEUTRON GAMMA PERMANENT
DAMAGE CONVENTIONAL SIMULATION
REPN: REIC 20
SUJO: 3-243-000
TITL: EFFECT OF NUCLEAR RADIATION ON STRUCTURAL METALS (U), 192 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00855
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6109
DESC: test instruments nuclear radiation L1
DESC: BIBLIOGRAPHY
REPN: REIC 23
SUJO: 4-340-000
TITL: RADIATION DOSIMETRY, AN ANNOTATED BIBLIOGRAPHY (U), 240 P (U) 42 P,
(SRD)

TREE: 655 ; 150

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00864
AUTH: OESTMANN M.J.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6102
DESC: Simulation Facilities Techniques nuclear radiation L1
DESC: GAMMA FACILITIES ; SURVEY
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
REPN: REIC 16
SUJO: 4-240-000 ; 4-241-000
TITL: SURVEY OF IRRADIATION FACILITIES (U), 214 P (U)
TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00886
ADNO: 327354
AUTH: TINNEY J.F.
CLSS: (U)
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6110
DESC: Nuclear Test Simulation Field Programs experiment design rocket
probe sounding rocket descriptions balloons L5
DESC: JASON ; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
REPN: AFSWC TR 61 92 ; SWC TR 61 92
SHOT: ARGUS II
SUJO: 2-311-000 ; 3-312-100 ; 4-820-900
TEMP: 25573
TITL: PERSONNEL HAZARDS ASSOCIATED WITH ARGUS ELECTRONS (U), 26 P (U)

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copy: 1 id: 37920-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 00898
ADNO: 269849
AUTH: OPPENHEIM I.
CLSS: U
CONN: DA 04 495 ORD 3112 ; AF 19 (604) 7331
CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA)
DATE: 6106
DESC: Composition Chemistry Atmosphere Reaction Rates L1
DESC: THEORY
DESC: Radiation Transport L1
DESC: Ionosphere normal properties L1
REPN: ZPH 108
SUJO: 5-400-000 ; 5-710-000 ; 9-600-000
TITL: TRANSPORT EQUATIONS FOR THE UPPER ATMOSPHERE (U), 41 P (U)

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copy: 1 id: 37925-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00909
ADNO: 268958
AUTH: ANTHONY A.E. JR.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6110
DESC: Radiation Transport neutron L1
DESC: THEORY TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L9 P 10
REPN: AFSWC TR 61 85 ; SWC TR 61 85
TSHO: HI-ALT
SUJO: 3-312-100 ; 9-650-000
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF
70,000 FEET(U), 49 P (U)
TREE: 970

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copy: 1 id: 37928-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00919
AUTH: LAMARSH J.R. ; LIEBERMAN A.I. ; CHESNUT W.G.
CLSS: SRD 1
CCDE: MCL-2
CONN: DA 30 069 501 ORD 2538

CORP: GC DEWEY COMPANY (NEW YORK-NY)
DATE: 5905
DESC: STATISTICS ; THEORY CODE
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 143
SUJO: 4-140-000
TEMP: 25621
TITL: FIRST QUARTERLY PROGRESS REPORT (U), 27 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00920
AUTH: CHESNUT W.G. ; LIEBERMAN A.I. ; LAMARSH J.R. ; SCHWARTZ J.L.
CLSS: SRD 1
CCDE: MCL-1 ; MCL-2
CONN: DA 30 069 501 ORD 2538
CORP: GC DEWEY COMPANY (NEW YORK-NY)
DATE: 5908
DESC: THEORY CODE
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 177
SUJO: 4-140-000
TEMP: 25622
TITL: SECOND QUARTERLY PROGRESS REPORT (U), 23 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00921
CLSS: SRD 1
CCDE: MCL-2
CONN: DA 30 069 501 ORD 2538
CORP: GC DEWEY COMPANY (NEW YORK-NY)
DATE: 5911
DESC: Radiation Transport neutron L1
DESC: Nuclear Weapon Effects space systems L1
DESC: PERMANENT DAMAGE NUCLEAR WEAPONS X-RAY NEUTRON ; THEORY CODE
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1
REPN: GCD LOG 226
SUJO: 3-114-000 ; 3-161-000 ; 9-650-000
TEMP: 25623

TITL: THIRD QUARTERLY PROGRESS REPORT (U), 19 P (SRD)

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INUM: 00923-02

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6003

DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1 X-RAY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

DESC: THEORY

REPN: GCD LOG 294

SUJO: 3-259-400 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 2, 1
MARCH 1960 TO 31 MARCH 1960 (U), 13 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-05

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6006

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

REPN: GCA LOG 323

SUJO: 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 5, 1
JUNE 1960 30 JUNE 1960 (U), 6 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-06
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6007
DESC: THEORY
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads X-RAY NEUTRON
LETHAL RANGE
REPN: GCD LOG 330
SUJO: 3-161-000 ; 9-640-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 6, 1
JULY 1960 31 JULY 1960 (U), 15 P (SRD)

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copy: 1 id: 37940-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-07
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6008
DESC: Radiation Transport neutron L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: THEORY
REPN: GCD LOG 331
SUJO: 1-110-000 ; 9-650-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO 7, 1
AUGUST 1960 31 AUGUST 1960 (U), 6 P (SRD)

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copy: 1 id: 37941-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-08
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6009
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 345

SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 8, 1
SEPTEMBER 1960 30 SEPTEMBER 1960 (U), 10 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-09
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6010
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 367
SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 9, 1
OCTOBER 1960 31 OCTOBER 1960 (U), 5 P (SRD)

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copy: 1 id: 37943-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-10
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6011
DESC: Cross Sections x-ray L1
DESC: THEORY
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5
DESC: Radiation Transport neutron L1
REPN: GCD LOG 390
SUJO: 3-161-000 ; 4-836-000 ; 9-650-000 ; 9-840-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 10, 1
NOVEMBER 1960 30 NOVEMBER 1960 (U), 4 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00923-12
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6101
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 420
SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 12, 1
JANUARY 1961 31 JANUARY1961 (U), 16 P (SRD)

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copy: 1 id: 37946-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00923-14
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6103
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 437
SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 14, 1
MARCH 1961 31 MARCH 1961 (U), 41 P (SRD)

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copy: 1 id: 37948-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00923-15
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6104
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

REPN: GCD LOG 463
SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 15, 1
APRIL 1961 30 APRIL 1961 (U), 12 P (SRD)

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copy: 1 id: 37949-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-17
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6106
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

DESC: Nuclear Weapon Effects ordnance explosives L1 X-RAY

DESC: THEORY

REPN: GCD LOG 489

SUJO: 3-163-000 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 17, 1
JUNE 1961 30 JUNE 1961 (U), 9 P (SRD)

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copy: 1 id: 37951-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-18
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6107
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

DESC: Nuclear Weapon Effects ordnance explosives L1 X-RAY

DESC: THEORY

REPN: GCD LOG 491

SUJO: 3-163-000 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 18, 1
JULY 1961 31 JULY 1961 (U), 9 P (SRD)

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copy: 1 id: 37952-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 00923-21
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6112
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: GCD LOG 558
SUJO: 4-140-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORTS NOS. 22
AND 23, 1 NOVEMBER 1961 31 DECEMBER 1961 (U), 4 P (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 00923-22
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)
DATE: 6201
DESC: Radiation Transport neutron L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRONS
DESC: THEORY
REPN: GCD LOG 563
SUJO: 3-161-000 ; 9-650-000
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 24, 1
JANUARY 1962 31 JANUARY 1962 (U), 8 P (SRD)

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copy: 1 id: 37956-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 00924
AUTH: CHESNUT W.G.
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)

DATE: 5905
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Radiation Transport x-ray L1
DESC: Cross Sections x-ray L1
DESC: THEORY
DESC: Nuclear Weapon Environment X-ray Output rate L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
REPN: TN 59 01 ; GCD LOG 141
SUJO: 1-610-000 ; 1-620-000 ; 1-640-000 ; 9-640-000 ; 9-840-000
TEMP: 25647
TITL: CLASSIFIED TITLE (U), 36 P (SRD)

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copy: 1 id: 37957-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00925
AUTH: LAMARSH J.R.
CLSS: SRD 1
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)
DATE: 6007
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P 15
DESC: THEORY
DESC: Radiation Transport neutron L1
REPN: GCD LOG 328
SUJO: 1-120-000 ; 3-161-000 ; 9-650-000
TEMP: 25648
TITL: MONTE CARLO CALCULATIONS OF NEUTRON PENETRATION INTO NUCLEAR
WARHEADS (U), 29 P (SRD)

TREE: 970
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00925
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copy: 1 id: 37958-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 00926
AUTH: LAMARSH J.R. ; LIEBERMAN A.I.
CLSS: U
CCDE: MCC-1 ; MCC-2
CONN: DA 30 069 501 ORD 2538
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)
DATE: 6008
DESC: Radiation Transport neutron L1

DESC: CODE
SUJO: 9-650-000
TEMP: 25649
TITL: TWO MONTE CARLO CODES FOR NEUTRON TRANSPORT IN SPHERICAL SYSTEMS
(U), 24 P (U)

TREE: 970

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created: 12/27/1991 type: REPORT permanent

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INUM: 00927

AUTH: AYRES R.U.

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6105

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 TEMPERATURE

DESC: THEORY

REPN: TN 61 25 ; GCD LOG 460

SUJO: 2-130-000

TEMP: 25650

TITL: RADIATION FROM A NUCLEAR DEVICE (U), 15 P (SRD)

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copy: 1 id: 37960-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00929

ADNO: 391068L

AUTH: CHESNUT W.G.

CLSS: SRD 1

CONN: DA 30 069 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6110

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: equation of state heat of vaporization thermal conductivity opacity

L1

DESC: Cross Sections x-ray L1

DESC: Nuclear Weapon Environment X-ray Output rate L1

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Nuclear Weapon Effects materials metals alloys L1 CARBON ALUMINUM
LEAD SILICON OXIDE

DESC: Radiation Transport x-ray L1

DESC: X-RAY ; THEORY
REPN: GCD LOG 548 ; R 118 061 02
SUJO: 1-610-000 ; 1-620-000 ; 1-640-000 ; 3-243-000 ; 9-640-000 ;
9-710-000 ; 9-840-000
TEMP: 25652
TITL: STUDY OF NUCLEAR WEAPON PHENOMENA IN SPACE WARFARE (U), 196 P (SRD)

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00929
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copy: 1 id: 37962-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00958
AUTH: RICHARDS P.I.
CLSS: U
CCDE: ZZ(INITIAL CONDITIONS)
CONN: DA 19 020 ORD 5408
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MA)
DATE: 6205
DESC: Composition Chemistry Atmosphere Reaction Rates L1
DESC: THEORY
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
REPN: TO B 62 24
SUJO: 2-160-000 ; 5-400-000
TITL: SUMMARY REPORT ON INVESTIGATION OF RADIATION AND CHEMICAL
CALCULATIONS (U), CIRCA 120 P (U)

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00958
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copy: 1 id: 37974-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00966
AUTH: TORREY M.D.
CLSS: C
CCDE: TECH OPS 2D HYDRO
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)
DATE: 6206
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L5
DESC: Radiation Transport gamma L5
DESC: NIKE
REPN: TO B 62 34
TSHO: HI-ALT
SUJO: 2-611-000 ; 9-620-000
TEMP: 27074
TITL: STUDY OF BOMB DEBRIS EFFECTS, INTERIM PROGRESS REPORT (15 MARCH TO
15 JUNE 1962), (U), 3 P., (S)

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00966
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copy: 1 id: 37978-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00984
AUTH: HERSHEY T.L.
CLSS: SRD 1
CORP: AIR FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-O4) ; AIR
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-OH)
DATE: 6111
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Radiation Transport thermal L1
DESC: Nuclear Weapon Effects materials metals alloys L1 IRON ALUMINUM
COPPER BERYLLIUM LEAD STAINLESS STEEL MOLYBDENUM TITANIUM ZINC
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1
DESC: THERMAL ; SUMMARY THEROY EXPERIMENTAL
DESC: equation of state heat of vaporization thermal conductivity opacity
L1
REPN: WADD TR 61 69
SHOT: MET ; ERIE ; MOHAWK ; SMOKY
TSHO: LOW-ALT
SUJO: 1-410-000 ; 2-110-000 ; 2-130-000 ; 2-150-000 ; 3-243-000 ;
3-244-000 ; 9-610-000 ; 9-710-000
TEMP: 25953
TITL: SUMMARY OF STUDIES ON THERMAL ABLATION FROM NUCLEAR FIREBALLS (U),
234 P (SRD)

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00984
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copy: 1 id: 37984-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 00990
AUTH: JOHNSON G.L. ; DYCE R.B.
CLSS: S
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6200
DESC: nuclear test detection trapped radiation L1
DESC: RUSSIAN TEST DETECTION ; INJUN 1 (SATELLITE) ; EXPERIMENTAL
REPN: SRI 2 177

SUJO: 4-910-700
TEMP: 25181
TITL: PRELIMINARY RESULTS FROM THE STUDY OF INJUN I SATELLITE RECORDS
COVERING THE PERIOD OF THE SOVIET NUCLEAR TESTS (U), 15 P (S)

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created: 12/27/1991 type: REPORT permanent
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INUM: 01024
ADNO: 369263
AUTH: HALLMAN T.M.
CLSS: SRD 1
CONN: AF 29 (601) 5184
CORP: NORTHROP CORPORATION/RADIOPLANE DIVISION (VAN NUYS-CA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6204
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L1
DESC: Nuclear Weapon Test cost L1
DESC: Nuclear Weapon Test site layout L1
REPN: RADIOPLANE R 2550 ; AFSWC TDR 62 36 ; SWC TDR 62 36
SUJO: 4-820-400 ; 4-854-000 ; 4-855-000
TEMP: 27158
TITL: BUNKER DESIGN AND INSTRUMENT LAYOUT FOR TRANSIENT RADIATION EFFECTS
STUDIES INA NUCLEAR ENVIRONMENT (U), 41 P (SRD)

TREE: 641
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copy: 1 id: 37995-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01043
AUTH: GAUVIN H.P. ; CAHILL J.P. ; SCANLON R. ; DAVIDSON G. ; CARPENTER
R.O. ; KOFKYI. ; GATES D.
CLSS: SRD 1
CORP: DEFENSE ATOMIC SUPPORT AGENCY (ALBUQUERQUE-NM)
DATE: 6204
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L1
DESC: test instruments IR L1

DESC: Nuclear Test Simulation Field Programs experiment design aerospace systems L5
DESC: PRETEST REPORT ; THEORY
DESC: Nuclear Test Simulation Field Programs experiment design optical radiation experiments UV visible IR L5
PROJ: 8A.1
SHOT: BLUEGILL ; STARFISH
TSHO: HI-ALT
SUJO: 2-211-000 ; 2-311-000 ; 2-312-400 ; 4-130-000 ; 4-383-000 ; 4-820-600 ; 4-829-100
TEMP: 27213
TITL: HIGH ALTITUDE NUCLEAR DETONATION OPTICAL/INFRARED EFFECTS, OPERATION FISH BOWL, PRE-TEST REPORT, PROJECT 8A.1 (U), 119 P (SRD)

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copy: 1 id: 38008-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01044
AUTH: HANSEN D.F. ; SHULER M.P.
CLSS: SRD 1
CORP: E G AND G INCORPORATED (BOSTON-MA)
DATE: 6205
DESC: PRETEST REPORT
DESC: Nuclear Test Simulation Field Programs experiment design photography

L1

DESC: Nuclear Test Simulation Field Programs experiment design optical radiation experiments UV visible IR L1
REPN: EGG B 2432
PROJ: 8A.2
SHOT: BLUEGILL ; STARFISH
TSHO: HI-ALT
SUJO: 4-820-600 ; 4-826-000
TEMP: 27212
TITL: OPTICAL PHENOMENOLOGY OF HIGH-ALTITUDE NUCLEAR DETONATIONS, OPERATION FISHBOWL, PRE-TEST REPORT, PROJECT 8A.2 (U), 47 P (SRD)

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copy: 1 id: 38009-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01045
AUTH: ADAMS F.D. ; ANNIS M. ; ANDERSON O.R. ; ASHLEY L. ; CARPENTER J.W. ; CICERO A.B. ; COBB C.M. ; DE CAPRIO A.R. ; FAHRENHOLZ F.E. ; FRYKLUND G.G. ; VRABLIK G.R. ; WILFERT A. ; CLARK G.W. ; WATSON B. ; ZOTOS J.

CLSS: SRD 1
CORP: AIR FORCE AERONAUTICAL SYSTEMS DIVISION (WRIGHT-PATTERSON AFB-OH) ;
AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA) ;
MASSACHUSETTS INSTITUTE OF TECHNOLOGY (CAMBRIDGE-MA) ; HARVARD
UNIVERSITY (BOSTON-MA) ; NORTHEASTERN UNIVERSITY (BOSTON-MA)
DATE: 6200
DESC: Nuclear Test Simulation Field Programs experiment design aerospace
systems L5
DESC: Nuclear Test Simulation Field Programs experiment design materials
L5
DESC: Nuclear Test Simulation Field Programs experiment design rocket
probe sounding rocket descriptions balloons L5
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L5
DESC: PRETEST REPORT
PROJ: 8A.3
SHOT: BLUEGILL ; STARFISH
TSHO: HI-ALT
SUJO: 1-240-000 ; 1-620-000 ; 4-820-500 ; 4-820-900 ; 4-829-100 ;
4-829-600
TEMP: 27211
TITL: STRUCTURAL RESPONSE TO THERMAL RADIATION FROM A HIGH ALTITUDE
FIREBALL, OPERATION FISHBOWL, SHOT BLUEGILL, PRE-TEST REPORT,
PROJECT 8A.3 (U), 86 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01093
ADNO: 328749
AUTH: SANFORD J.R.
CLSS: U
CONN: AF 33 (616) 7384
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;
AIR FORCE/NAVIGATION & GUIDANCE LABORATORY(WRIGHT PATTERSON-OH)
DATE: 6112
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: ignition flammability ablation L1
DESC: Nuclear Weapon Effects materials metals alloys L1 CARBON STEEL
STAINLESS STEEL MAGNESIUM ALUMINUM COPPER IRON TITANIUM CHROMIUM
NICKEL SILVER BERYLLIUM CADMIUM TIN ZINC LEAD MOLYBDENUM TUNGSTEN
GOLD PLATINUM TANTALUM
DESC: X-RAY ; THEORY
DESC: equation of state heat of vaporization thermal conductivity opacity
L1
DESC: Nuclear Weapon Effects ordnance explosives L1
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1

REPN: ASD TDR 62 86 VOL 4 ; CH CPR 863 VOL 4
SUJO: 3-163-000 ; 3-243-000 ; 3-244-000 ; 3-246-000 ; 9-710-000 ;
9-730-000

TEMP: 27554

TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME FOUR DAMAGE
MECHANISMS AND WEAPON EFFECTIVENESS (U), 202 P (S)

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copy: 1 id: 38028-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01097

AUTH: POLL R.A. ; VAN LINT V.A.J.

CLSS: U

CONN: AF 29 (601) 4953

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: Nuclear Weapon Effects materials ceramics optical L1 QUARTZ

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices

sensors detectors L1 PRESSURE TRANSDUCERS

DESC: NUCLEAR RADIATION TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL

REPN: AFSWC TDR 62 63 ; SWC TDR 62 63

SUJO: 3-224-000 ; 3-231-000 ; 3-241-000

TITL: TRANSIENT RADIATION EFFECTS IN PRESSURE TRANSDUCERS (U), 65 P (U)

TREE: 363

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copy: 1 id: 38031-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01101

AUTH: VAN LINT V.A.J. ; ROES J. ; WILLIS D.E.

CLSS: U

CONN: AF 29 (601) 2818

CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: GAMMA TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL THEORY

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L5 APPENDIX A

REPN: AFSWC TDR 62 29 ; SWC TDR 62 29

SUJO: 3-221-000 ; 3-223-000

TEMP: 27440

TITL: EFFECT OF PULSED GAMMA RADIATION ON INFRARED DETECTORS (U), 75 P (U)

TREE: 361

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01101SUPPL

AUTH: VAN LINT V.A.J. ; ROES J. ; WILLIS D.E.

CLSS: U

CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1

DESC: GAMMA TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems guidance control L1

REPN: AFSWC TDR 62 29 SUPPL ; SWC TDR 62 29 SUPPL

SUJO: 3-211-000 ; 3-223-000

TEMP: 27440 SUPPL.

TITL: EFFECT OF PULSED GAMMA RADIATION ON INFRARED DETECTORS, SUPPLEMENT
(U), 50 P (S)

TREE: 361

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copy: 1 id: 38033-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01124

AUTH: HAMMAN D.J. ; WYLER E.N. ; CHAPIN W.E. ; VEAZIE W.H. JR. ; SHOBER
F.R. ; REID F.J. ; KALADOW J. ; REDMOND R. ; GILLETTE H.C. ; WORLS
E.G.

CLSS: U

CONN: AF 33 (616) 7375

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)

DATE: 6206

DESC: Nuclear Weapon Effects materials plastics resins L1

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: Nuclear Weapon Effects materials carbon L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1

DESC: Nuclear Weapon Effects materials metals alloys L1

DESC: NUCLEAR RADIATION PERMANENT DAMAGE ; SURVEY

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: REIC 24
SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-241-000 ;
3-243-000 ; 3-244-000 ; 3-248-000 ; 5-800-000
TITL: RADIATION EFFECTS STATE OF THE ART, 1961-1962 (U), 94 P (U)
TREE: 300

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01124
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copy: 1 id: 38035-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01143
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6203
DESC: SURVEY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1

REPN: REIC MEMO 10 C
SUJO: 4-140-000 ; 4-170-000
TEMP: 25742
TITL: NUCLEAR RADIATION EFFECTS PROJECTS (U), 82 P (U)
TREE: 642

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copy: 1 id: 38037-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 01154
AUTH: SANFORD J.R.
CLSS: C 3
CONN: AF 33 (616) 7384
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;
AIR FORCE/NAVIGATION + GUIDANCE LABORATORY (WRIGHT-PATTERSON-OH)
DATE: 6112
DESC: Simulation Facilities Techniques EMP L1
REPN: ASD TDR 62 36 V2 ; ASD TDR 62 86 V.2
SUJO: 4-271-000
TEMP: 27628
TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME TWO ENERGY SOURCES
(U), 89P (C)

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01154

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copy: 1 id: 38043-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 01155
ADNO: 328746
AUTH: SANFORD J.R.
CLSS: S 3
CONN: AF 33 (616) 7384
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;
AIR FORCE/NAVIGATION + GUIDANCE LABORATORY (WRIGHT-PATTERSON-OH)
DATE: 6112
DESC: Simulation Facilities Techniques EMP L1
REPN: ASD TDR 62 86 1 ; CH CPR 863 1
SUJO: 4-271-000
TEMP: 27626
TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME ONE-PROGRAM RESUME
(U), 32 P (S)

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copy: 1 id: 38044-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 01186
AUTH: CAHILL J.P. ; GAUVIN H.P. ; JOHNSON J.C.
CLSS: U
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA)
DATE: 6204
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: Nuclear Weapon Environment Thermal Output L1 TRANSMISSION FACTORS
DESC: THEOY
REPN: AFCRL 62 456
TSHO: SURFACE ; LOW ALT
SUJO: 1-200-000 ; 5-200-000
TITL: EFFECTIVE TRANSMISSION OF THERMAL RADIATION FROM NUCLEAR DETONATIONS
REAL ATMOSPHERES (U), 72 P, (U)

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copy: 1 id: 38050-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 01208
ADNO: 365378

AUTH: MORGAN D.T. ; BOLGER J.C. ; WASSIL G.N. ; BIXLER H.J.
CLSS: SRD 1
CONN: AF 29 (601) 4526
CORP: AVCO CORPORATION (WILMINGTON-MA) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NM)
DATE: 6209
DESC: Nuclear Weapon Effects materials plastics resins L1 CHOPPED NYLON
PHENOLIC
DESC: Nuclear Weapon Effects reentry systems RV L1 HEAT SHIELD
DESC: X-RAY NUCLEAR RADIATION PERMANENT DAMAGE CONVENTIONAL SIMULATION ;
EXPERIMENTAL
REPN: AFSWC TDR 62 70 ; SWC TDR 62 70 ; RAD TR 62 38
SUJO: 3-113-000 ; 3-244-000
TEMP: 27966
TITL: LATE-TIME EFFECTS OF X-RAYS ON HEAT-SHIELD MATERIALS (U), 136 P
(SRD)

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copy: 1 id: 38061-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01236
AUTH: HENDRICK R.W. JR.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6211
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
ELECTRONS
DESC: THEORY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: SP 202
SUJO: 2-217-000 ; 5-800-000
TITL: OMNIDIRECTIONAL FLUX FROM BETA-RAY SOURCE (U), 8 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01237
AUTH: TORREY M.
CLSS: U
CCDE: TECH OPS 2D HYDRO
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)
DATE: 6211
DESC: Radiation Transport gamma L5

DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5
REPN: TO B 62 72
SUJO: 2-160-000 ; 9-620-000
TITL: STUDY OF BOMB DEBRIS EFFECTS, FIRST PROGRESS REPORT (14 SEPTEMBER TO
30 OCTOBER 1962) (U), 5 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01245
AUTH: BADE W.L. ; YOS J.M. ; AVERELL J.P.
CLSS: SRD 1
CCDE: ZZ(BLOWOFF, IMPULSE PHENOMENA, PULSE MOMENTUM)
CONN: AF 29 (601) 4525
CORP: AVCO CORPORATION (WILMINGTON-MA) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NM)

DATE: 6210
DESC: Nuclear Weapon Effects materials metals alloys L1 ALUMINUM BERYLLIUM
GOLD

DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: RV MATERIALS X-RAY NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY CODE
REPN: AFSWC TDR 62 92 ; SWC TDR 62 92
SUJO: 3-243-000 ; 3-244-000
TEMP: 29246
TITL: ANALYTICAL THEORY OF X-RAY EFFECTS, FINAL REPORT (U), 423 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01256
ADNO: 339847
AUTH: CICERO A.B. ; FRYKLUND G.G. ; TAYLOR J.R.
CLSS: SRD 1
CONN: AF 33 (616) 7540
CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA) ; AIR
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-OH)

DATE: 6208
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear RDT&E Research Program Descriptions thermal optical L1
DESC: INTERMEDIATE RANGE OBSERVATION THERMAL
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: Nuclear Weapon Environment X-ray Output source strength total

intensity L1

DESC: Nuclear Weapon Effects materials plastics resins L9 P 105

REPN: ASD TR 61 230

SHOT: TEAK ; SMOKY

TSHO: HI-ALT ; LOW-ALT

SUJO: 1-210-000 ; 1-610-000 ; 3-243-000 ; 3-244-000 ; 4-130-000 ;

4-180-000

TEMP: 29197

TITL: THERMAL AND X-RADIATION MEASUREMENTS IN THE SHOT TEAK FIREBALL (U),

109 P (SRD)

TREE: 930

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01269

AUTH: BALSER M. ; PANNELL J.H.

CLSS: SFRD 1

CONN: AF 19 (628) 500

CORP: LINCOLN LABORATORY (LEXINGTON-MA)

DATE: 6211

DESC: PALMYRA ISLAND ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

REPN: PA 21 2 (BMRS)

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-510-000

TEMP: 29333

TITL: SYNCHROTRON RADIATION FROM STAR FISH PRIME, OPERATION FISH BOWL (U),

40 P (SFRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 01302

AUTH: TAMARKIN P.

CLSS: SRD 1

CONN: AF 49 (638) 500

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 5901

DESC: Nuclear Weapon Effects EM Propagation reflection clutter fireball

disturbed ionosphere L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1

DESC: QUICK KEY ; SURVEY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L1
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: R 334 ARPA ; QUICK KEY R 5
SHOT: TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 2-321-100 ; 2-321-310 ; 2-420-000 ; 2-510-000 ; 5-738-000 ;
5-800-000
TEMP: 21646
TITL: SUMMARY OF PROJECT QUICK KEY ACTIVITIES (U), CIRCA 400 P (SRD)

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copy: 1 id: 38089-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 01309
AUTH: CICERO A.B. ; TAYLOR J.R.
CLSS: SRD 1
CONN: DA 19 020 ORD 5377
CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA)
DATE: 6209
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
DESC: Solid Mechanics L1
DESC: X-RAY ; THEORY
DESC: Nuclear Weapon Effects reentry systems RV L1
REPN: ASE 275
TSHO: HI-ALT
SUJO: 3-113-000 ; 9-200-000 ; 9-640-000 ; 9-840-000
TEMP: 29437
TITL: EARLY RADIATION EMITTED BY A FIREBALL IN THE INTERMEDIATE ALTITUDE
RANGE AND THE INDUCED STRUCTURAL LOADINGS (U), 179 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01393
AUTH: GRAN W.M.
CLSS: SFRD 1
CONN: AF 33 (657) 8438
CORP: COOK TECHNOLOGICAL CENTER (MORTON GROVE-IL) ; AIR FORCE/AERONAUTICAL

SYSTEMS DIVISION (WRIGHT-PATTERSON AFB-OH)

DATE: 6212
EFFT: air-blast; thermal
DESC: Nuclear Weapon Effects flight systems airplanes L1
DESC: Nuclear Weapon Environment Airblast static overpressure L1 Weapon
Output Thermal L1
REPN: ASD TDR 62 823 ; 62 ASWKS 746
SHOT: QUESTA ; AZTEC ; MESILLA ; ENCINO ; NAMBE ; ALMA ; YESO ; RINCONADA
; BIGHORN
TSHO: LOW-ALT
SUJO: 2-611-000 ; 3-111-000 ; 4-829-100 ; 1-210-000 ; 1-240-000
TEMP: 31057
TITL: THERMAL RADIATION FROM AIR BURST NUCLEAR WEAPONS INCIDENT ON
LOW-ALTITUDE AIRCRAFT (U), 260 P (SFRD)

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copy: 1 id: 38120-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 01593
AUTH: MCEVOY R.W. ; HORTON B.M.
CLSS: U
CONN: DA 49 186 ORD 1005
CORP: GD/GENERAL ATOMIC DIVISION (LA JOLLA-CA)
DATE: 6210
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: SUMMARY
SUJO: 4-241-000
TITL: HAZARDS SUMMARY REPORT, DIAMOND ORDNANCE RADIATION FACILITY (U),
CIRCA 300 P, (U)

TREE: 642

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copy: 1 id: 38218-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 01665
AUTH: KARZAS W.J. ; LATTER R.
CLSS: U
CORP: RAND CORPORATION (SANTA MONICA-CA)
DATE: 6110
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: nuclear test detection EMP earth current detection L1
REPN: RM 2849 AFT

TSHO: HI-ALT
SUJO: 2-510-000 ; 4-914-000
TITL: ELECTROMAGNETIC RADIATION FROM A NUCLEAR EXPLOSION IN SPACE (U),
MEMORANDUM, 33 P, (U)

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01665
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copy: 1 id: 38248-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01687
AUTH: WOUTERS L.F.
CLSS: SRD
CORP: UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LABORATORY (LIVERMORE,
CA.)

DATE: 6210
DESC: Nuclear Test Simulation Field Programs experiment design EMP earth
currents geomagnetic effects L5

DESC: SUMMARY
EMPF: 600
REPN: COPAC 62 61
TSHO: SURFACE
SUJO: 4-824-000
TEMP: 35402
TITL: EMP TEST CRITERIA (U), 5 P, (SRD)

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copy: 1 id: 38259-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01689
AUTH: BLIZARD E.P. ; COOK T.B. ; HARRIS P.S. ; LATTER A.L. ; LEONARD B.P.
; SUSSHOLZB.
CLSS: SRD
CONN: AF 04 647 309
CORP: SPACE TECHNOLOGY LABORATORIES INCORPORATED (LOS ANGELES-CA)
DATE: 5912
DESC: INTEGRATED EFFECTS BLAST AND SHOCK RADIATION ; SUMMARY
DESC: Nuclear Weapon Effects structures hard launch sites materials L1
DESC: Nuclear Weapon Effects Communications Systems C4 hardware L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L5
DESC: Nuclear Weapon Effects electronic pieceparts L5
REPN: STL TR 59 0000 00735 ; AFBMD TR 59 22
SUJO: 3-116-200 ; 3-130-000 ; 3-220-000 ; 3-312-100 ; 3-312-200
TEMP: 35416
TITL: NUCLEAR RADIATION CRITERIA FOR HARDENED ICBM SYSTEMS (U), 105 P,

(SRD)

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copy: 1 id: 38261-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01693

AUTH: MALIK J.

CLSS: SRD

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)

DATE: 6106

DESC: EXPERIMENTAL THEORY SURVEY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

EMPF: 223 ; 222 ; 213

REPN: LAMS 2606

SHOT: PRISCILLA ; HOOD ; OWENS ; WILSON

TSHO: LOW-ALT ; SURFACE ; WATER SURFACE

SUJO: 2-510-000

TEMP: 35376

TITL: NOTES ON ELECTROMAGNETIC RADIATION (U), 39 P, (SRD)

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copy: 1 id: 38265-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01697

AUTH: GOLDBERG P.A.

CLSS: SRD 1

CONN: AF 49 638 700

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6203

DESC: SUMMARY THEORY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

SCALING

DESC: Nuclear Weapon Effects Military Systems L1 EMP SCALING OF HARDENED

SYSTEMS

EMPF: 300

REPN: RM 3028 PR

SUJO: 2-510-000 ; 3-100-000

TEMP: 35421

TITL: ON CRITERIA OF VULNERABILITY OF PHYSICAL SYSTEMS TO NEMR--THE
ELECTROMAGNETIC RADIATION FROM NUCLEAR DETONATIONS (U), 41 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01720
AUTH: GIFFELS C.A. ; STERN R.A.
CLSS: SRD 1
CORP: BELL TELEPHONE LABORATORIES (WHIPPANY-NJ)
DATE: 6109
DESC: SUMMARY
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
MODEL SURVEY
EMPF: 222
REPN: BTL MM 61 4261 10
TSHO: LOW-ALT
SUJO: 2-510-000
TEMP: 35552
TTTL: R.F. RADIATION FROM A NUCLEAR DETONATION -A SURVEY OF OBSERVATIONS
AND PROPOSED MODELS, CASE 27495-41 (U), 20 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01789
ADNO: 216691
CLSS: U
CONN: AF 603 100
CORP: UNIVERSITY OF UTAH
DATE: 5903
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques blast shock high explosives L1
REPN: AFOSR TN 59 551
SUJO: 4-216-300
TTTL: ELECTRICAL FIELDS AND ELECTROMAGNETIC RADIATION FROM CHEMICAL
EXPLOSIONS (U), 53 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 01863
AUTH: STUBBS H.E.
CLSS: U

CONN: AF 29 601 2606
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)
DATE: 6105
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1
DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL
TIME.L1
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Effects meteorological Atmospheric Heating HEATING
DESC: nuclear test detection infrared detection L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
REPN: AFCRL 474
SHOT: TEAK
TSHO: HI-ALT
SUJO: 2-110-000 ; 2-160-000 ; 2-211-000 ; 2-214-000 ; 2-215-000 ;
2-311-000 ; 2-312-400 ; 2-611-000 ; 2-730-000 ; 4-910-500 ;
5-200-000
TEMP: 37575
TITL: INFRARED RADIATION GENERATED BY A NUCLEAR DETONATION (U), 280 P (S)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01864
AUTH: ENGELMAN A.
CLSS: SRD
CONN: DA 19 020 ORD 5357
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)
DATE: 6212
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Composition Chemistry Atmosphere Reaction Rates L1

DESC: THEORY EXPERIMENTAL
REPN: GCA 63 1 G
SHOT: KINGFISH ; BLUEGILL
TSHO: HI-ALT
SUJO: 2-211-000 ; 2-212-000 ; 2-311-000 ; 2-321-100 ; 2-420-000 ;
5-400-000 ; 5-800-000

TEMP: 37576
TITL: OPTICAL EFFECTS STUDY (U), 89 P (S)

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copy: 1 id: 38396-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 02018
ADNO: 419652
AUTH: HOCK D.C.
CLSS: U
CONN: AF 601 2348
CORP: RADIATION INCORPORATED (PALO ALTO-CA)
DATE: 6009
DESC: SUMMARY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1

REPN: PROGRESS REPORT 2
SUJO: 5-800-000
TITL: THEORETICAL STUDY OF THE USEFULNESS OF MEASUREMENTS OF VAN ALLEN
RADIATION WITH RESPECT TO ARGUS, QUARTERLY PROGRESS REPORT (U), 18 P
(U)

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02018
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 02106
AUTH: RICH J.C.
CLSS: U
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)
DATE: 6105
DESC: Fluid Mechanics L1
DESC: THEORY ; THEORY
REPN: AFSWC TN 61 29 PT 1
SUJO: 9-400-000
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS
OF FLUID FLOW PROBLEMS, MAY 16-18, 1961

TITL: PROBLEMS OF RADIATION TRANSPORT IN HEATED AIR (U), 13 P (U)
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-2P46
AUTH: LOOMIS C.C.
CLSS: SRD 1
CCDE: SPUTTER
CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)
DATE: 6105
DESC: Fluid Mechanics hydrodynamics L1
DESC: Radiation Transport L1
DESC: THEORY
SUJO: 9-410-000 ; 9-600-000
SYMJ: AFSWC SECOND HYDRO DYNAMIC CONFERENCE, PART 2, MAY 1961
TEMP: 39333 PART 2
TITL: FLUID DYNAMICS AND RADIATION FLOW IN THE SPUTTER CODE (U), 10 P
(SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02106-2P57
AUTH: FREEMAN B.E.
CLSS: SRD 1
CCDE: SHELL
CORP: GENERAL ATOMIC
DATE: 6105
DESC: Fluid Mechanics hydrodynamics L5
DESC: Radiation Transport L5
DESC: THEORY
SUJO: 9-410-000 ; 9-600-000
SYMJ: AFSWC SECOND HYDRODYNAMIC CONFERENCE, PART 2, MAY 1961
TEMP: 39333 PART 2
TITL: CLASSIFIED TITLE (SRD), 6 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-125

AUTH: LANDSHOFF R.K.M. ; MEYEROTT R.E.
CLSS: U
CORP: LOCKHEED MISSILES AND SPACE DIV
DATE: 6105
DESC: THEORY
DESC: Radiation Transport thermal AIR
REPN: TN 61 29
SUJO: 9-610-000
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS
OF FLUID FLOW PROBLEMS, MAY 16-18, 1961
TITL: PROBLEMS OF RADIATION TRANSPORT IN HEATED AIR (U), 13 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-139
AUTH: GRANDEY R.A.
CLSS: U
CORP: AERONUTRONIC DIV
DATE: 6105
DESC: Fluid Mechanics hydrodynamics L1
DESC: Radiation Transport L5
DESC: THEORY
REPN: TN 61 29
SUJO: 9-410-000 ; 9-600-000
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS
OF FLUIDSFLOW PROBLEMS, MAY 16-18, 1961
TITL: NUMERICAL METHODS FOR HYDRODYNAMICS WITH RADIATION TRANSPORT (U), 11
P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02110
ADNO: 366873
AUTH: PEDERSEN H.N. ; ZABINSKI E. ; HALL G.A.
CLSS: SRD
CONN: AF 29 601 2831
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)
DATE: 6110
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1 IR
DESC: SIMULATION (CARBON ARC) ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5
DESC: Nuclear Weapon Environment Thermal Output L5

DESC: Simulation Facilities Techniques thermal optical L1
DESC: Radiation Transport thermal L5 AIR
REPN: SWC TR 61 78 ; AFSWC TR 61 78
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-200-000 ; 2-110-000 ; 3-211-000 ; 4-280-000 ; 9-610-000
TEMP: 39396
TITL: RESPONSES OF MILITARY INFRARED SYSTEMS TO THERMAL IRRADIATION FROM
NUCLEAR WEAPONS, FINAL REPORT (U), 201 P, (SRD)

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copy: 1 id: 38595-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02114
AUTH: SHELTON F.H. ; SACHS D.C. ; ELLIS P.A.
CLSS: SRD 1
CONN: N60921 701
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6212
DESC: Nuclear weapon test burn performance L9 P6
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L5
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L5 ORANGE BLUE GILL
DESC: Radiation Transport x-ray L5
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1
DESC: Nuclear weapon test yield L9 P2
DESC: EXPERIMENTAL PREDICTIONS ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P2
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
RADIAL EXPANSION
REPN: KN 677 62 6
SHOT: YUCCA ; ORANGE ; BLUE GILL
SUJO: 2-110-000 ; 2-130-000 ; 2-150-000 ; 2-312-400 ; 2-612-000 ;
4-835-000 ; 4-837-000 ; 4-841-000 ; 9-640-000
TEMP: 39433
TITL: COMPUTED BLAST FORMATION FOR SEVERAL HIGH ALTITUDE NUCLEAR
DETONATIONS (U), 51P, (SRD)

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copy: 1 id: 38599-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02119

AUTH: COLGATE S.A.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6010
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial
gamma L5
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1
REPN: UCRL 6189
SUJO: 2-312-200 ; 2-530-000
TITL: NEAR MAGNETIC INDUCTION SIGNAL FROM A NUCLEAR EXPLOSION DUE TO
MOVEMENT OF THE EARTH'S MAGNETIC FIELD (U), 5 P, (U)

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copy: 1 id: 38603-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02134
AUTH: BOTH E. ; BRUEMMER H.P. ; SCHLOSSER W.
CLSS: U
CORP: ARMY/ELECTRONICS RESEARCH AND DEVELOPMENT LABORATORY (FT
MONMOUTH-NJ)
DATE: 6209
DESC: SIMULATION (PULSE REACTOR) EMP RF ; EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links L5 CABLES
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
REPN: TR 2313
SUJO: 3-231-000 ; 4-829-500
TITL: TRANSIENTS INDUCED IN ELECTRICAL CABLES BY NUCLEAR RADIATION PULSES
(U), 29 P,(U)

TREE: 390

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02146
ADNO: 338208
AUTH: SHAW C.B.
CLSS: SRD 1
CONN: AF 29 601 2370
CORP: HUGHES RESEARCH LABORATORIES (MALIBU-CA)
DATE: 6012

DESC: THEORY
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Electromagnetic Theory Applications L1
REPN: SDN 128003/30
SUJO: 2-530-000 ; 5-800-000 ; 9-300-000
TEMP: 39522
TITL: STUDY OF RELATIVISTIC ELECTRONNS TRAPPED IN THE EARTHS MAGNETIC
FIELD, FINAL REPORT(U), 42 P, (SRD)

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copy: 1 id: 38618-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02156
AUTH: RAINEY S.C. ; SHNIDER R.W.
CLSS: SFRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6204
DESC: Nuclear Weapon Effects on animals blast shock pressure L1
DESC: thermal protection L9
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
FALLOUT GAMMA NEUTRON
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: PERSONNEL SAFETY ; HANDBOOK
REPN: USNRDL TR 552
TSHO: LOW ALT ; WATER SURFACE
SUJO: 2-225-100 ; 3-311-100 ; 3-312-100 ; 3-313-100 ; 9-870-000
TEMP: 39611
TITL: PRELIMINARY WEAPONS EFFECTS PREDICTIONS FOR AEC DIAGNOSTIC WEAPONS
TEST SERIES(42 P, (SFRD)

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copy: 1 id: 38625-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02221
ADNO: 343490
AUTH: DRELL S.D. ; RUDERMAN M.A.
CLSS: U
CORP: INSTITUTE FOR DEFENSE ANALYSIS (WASHINGTON-DC)
DATE: 6007
DESC: Nuclear Weapon Environment Infrared Output source strength total

intensity L1

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1

DESC: THEORY

TSHO: HI-ALT

SUJO: 1-310-000 ; 2-214-000

TEMP: 39762

TITL: INFRARED RADIATION FROM THE ATMOSPHERE RESULTING FROM BOMB BURST
(U), 35 P, (C)

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02221

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copy: 1 id: 38683-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 02225

ADNO: 341261

AUTH: SHELTON F.H. ; HOFFMAN J.R. ; CONNORS R.J.

CLSS: SRD

CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)

DATE: 6005

DESC: Nuclear Weapon Effects materials metals alloys L1 X-RAY BE C AL FE

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5

DESC: Cross Sections x-ray L1 LOW Z METALS

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5

DESC: Solid Mechanics L9 P 89 TENSIL PROPERTIES OF LOW Z METALS

DESC: Nuclear Weapon Effects reentry systems RV L1 X-RAY

DESC: SUMMARY

DESC: Nuclear Weapon Effects materials plastics resins L1 TEFLON
POLYETHYLENE XRAY

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L9 TN ENERGY PARTITION P8

DESC: Radiation Transport x-ray L1 AIR

REPN: KN 154 60 3

SUJO: 1-610-000 ; 1-620-000 ; 2-150-000 ; 3-113-000 ; 3-243-000 ;
3-244-000 ; 9-200-000 ; 9-640-000 ; 9-840-000

TEMP: 39761

TITL: X-RAYS AND THEIR EFFECTS (U), 169 P, (SRD)

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copy: 1 id: 38686-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 02232

ABS: The intent of this report is to summarize our state of knowledge
regarding the effectiveness of special warheads. It deals with a

warhead radiation yield characteristics and transmission through the atmosphere, and also the penetration of the radiation through structures and the effect on people.

AUTH: LESSLER R.M.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6110
DESC: THEORY
DESC: Radiation Transport neutron L5 AIR
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Cross Sections gamma L9 SOIL P 14
DESC: Nuclear Warfare Theater operations scenarios battlefield environment
L1 ER WEAPONS
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence L5
DESC: Nuclear Weapon Effects on animals blast shock L5
REPN: UCRL 06667
SUJO: 1-110-000 ; 3-311-000 ; 3-312-100 ; 3-411-200 ; 9-650-000 ;
9-830-000
TEMP: 39805
TITL: CLASSIFIED TITLE (U) 31 P, (SRD)
TNFF: 4805

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copy: 1 id: 38690-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 02233
AUTH: KILLEEN J.
CLSS: SRD 1
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 5904
DESC: THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
REPN: UCRL 5640
SHOT: TEAK ; ORANGE ; ARGUS I
TSHO: HI-ALT
SUJO: 2-217-000
TEMP: 39803
TITL: ARGUS EFFECT ELECTRON DENSITIES FROM HIGH ALTITUDE NUCLEAR TESTS
(U), 25 P, (SRD)

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copy: 1 id: 38691-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02234
AUTH: JOHNSON M.H. ; LIPPMANN B.A.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 5908
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: nuclear test detection EMP earth current detection L1
DESC: THEORY SUMMARY
EMPF: 221
REPN: UCRL 5666 T
TSHO: HI-ALT
SUJO: 2-510-000 ; 4-914-000
TITL: ELECTROMAGNETIC SIGNALS FROM NUCLEAR EXPLOSIONS IN OUTER SPACE (U),
6 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02236
AUTH: COLGATE S.A.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6110
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial
gamma L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1
EMPF: 222
REPN: UCRL 6671
TSHO: LOW-ALT
SUJO: 2-312-200 ; 2-510-000 ; 2-530-000
TITL: SKIN DEPTH ANALYSIS OF EM SIGNAL FROM THE GAMMA RAYS OF A NUCLEAR
EXPLOSION (U), 7 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02237

AUTH: SOFTKY S.D. ; SQUIRE R.K.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6005
DESC: Nuclear Energy Peaceful Applications basic physical measurements
nuclear cross sections L1
DESC: Nuclear Test Simulation Field Programs concepts capability
philosophy L1
DESC: THEORY
REPN: UCRL 5968 ; TID 4500
TSHO: HI-ALT
SUJO: 3-486-000 ; 4-810-000
TITL: IN VACUO ELECTROMAGNETIC DISPERSION EXPERIMENT (U), 21 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02244
ADNO: 333243
CLSS: S
CORP: ARMED SERVICES TECHNICAL INFORMATION AGENCY (ARLINGTON-VA)
DATE: 6211
DESC: Radiation Transport thermal L1
DESC: thermal protection L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: BIBLIOGRAPHY
SUJO: 5-200-000 ; 9-610-000 ; 9-870-000
TEMP: 39838
TITL: BIBLIOGRAPHY: ATTENUATION AND ABSORPTION OF THE THERMAL RADIATION
FROM NUCLEAR EXPLOSIONS (U), 156 P, (S)

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copy: 1 id: 38700-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02266
AUTH: HERBST R.F. ; WATSON K.M. ; LATTE R.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (BERKELEY-CA) RAND CORP (SANTA MONICA
CA) ENT
DATE: 6108
DESC: SURVEY
DESC: nuclear test detection methods hardware L1
REPN: P 2399

SUJO: 4-910-000
TITL: DETECTION OF NUCLEAR EXPLOSIONS (U), 94 P, (U)

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02266
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copy: 1 id: 38714-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 02278
AUTH: JEWELL L.D. ; SMITH R.E.W. ; ALLEN F.C.
CLSS: SRD 1
CONN: NORD 18098
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6205
DESC: SIMULATION (COMPUTER) DEV 12 ; TABULAR
DESC: Radiation Transport neutron L1 AIR CO ALTITUDE ONLY
REPN: KN 62 71 R
TSHO: HI ALT
SUJO: 9-650-000
TEMP: 41053
TITL: RESULTS OF A MONTE CARLO CALCULATION OF NEUTRON FLUX FROM A SOURCE
AT 165,000 FEET ALTITUDE (U), 23 P, (SRD)

TREE: 920
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02278
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copy: 1 id: 38722-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 02282
AUTH: JEWELL L.D. ; SMITH R.E.W.
CLSS: SRD 1
CCDE: THISTLE
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6212
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: SIMULATION (COMPUTER) DEV 10
DESC: Radiation Transport neutron L1 AIR
REPN: KN 62 220 R
TSHO: LOW ALT
SUJO: 1-110-000 ; 9-650-000
TEMP: 41054
TITL: RESULTS OF A MONTE CARLO CALCULATION OF NEUTRON FLUX FROM A SOURCE
AT 4550 FEET (U), 17 P, (SRD)

TREE: 920
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02296
ADNO: 343398
AUTH: BROUGH T.G. ; MOSBY E.O. ; COSGRAVE J.F.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5907
DESC: BIBLIOGRAPHY
REPN: NRDL 462
TEMP: 39970
TITL: INDEX TO U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY, USNRDL SERIES
REPORTS ISSUED THROUGH 31 JULY 1959, (U), 315 P (C

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copy: 1 id: 38735-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02345
ADNO: 413007
AUTH: STUBBS H.E.
CLSS: U
CONN: AF 29 601 4134
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)
DATE: 6204
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: TRANSITION PROBABILITIES ; THEORY
DESC: Nuclear Weapon Environment radiation decay L1
DESC: Solid Mechanics L1
SUJO: 2-223-400 ; 2-311-000 ; 9-200-000
TITL: STUDY OF THE RECOMBINATION PHENOMENA ASSOCIATED WITH A HIGH NUCLEAR
EXPLOSION (U 41 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02374
CLSS: SRD 1
CONN: AF 19 604 6137

CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA)
DATE: 6007
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L5
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: THEORY
REPN: ASE 66 ; ERD TR 60 175
SUJO: 2-211-000 ; 2-212-000 ; 2-311-000 ; 4-140-000
TEMP: 39929
TITL: AIRBORNE GAMMA-RAY MEASUREMENTS, FINAL REPORT (U), 30 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02401
ADNO: 339886
CLSS: SRD 1
CORP: ARMY/CONTINENTAL COMMAND OF SPECIAL WEAPONS DEVELOPMENTS (FORT
BLISS-TX)
DATE: 6010
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 CALCULATION
DESC: Nuclear weapon test yield L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NUETRON
GAMMA
DESC: Cross Sections gamma L5 VARIOUS ELEMENTS
DESC: Radiation Transport neutron L5 AIR
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1
DESC: DEV 29 DEV 54 DEV 55 DEV 113 DEV 114 DEV 115 DEV 75 DEV 116 DEV 37
DEV 15 DEV 72 DEV 56 DEV 12 DEV 10 DEV 8 DEV 14 DEV 29 ; SUMMARY
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt
neutron L5
REPN: OSWD 59 4 V 2
SUJO: 1-110-000 ; 1-130-000 ; 2-312-300 ; 3-161-000 ; 4-835-000 ;
4-836-000 ; 9-650-000 ; 9-830-000
TEMP: 39945
TITL: RADIATION EFFECTS OF ONE NUCLEAR EXPLOSION ON A SECOND NUCLEAR
WEAPON, VOL II (U 319 P, (SRD)

TREE: 397

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02405
ADNO: 342426
AUTH: SUSSHOLZ B.
CLSS: SRD
CORP: SPACE TECHNOLOGY LABORATORIES INCORPORATED
DATE: 6112
DESC: TABULAR
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
SCALING
EMPF: 223
REPN: 6101 6055 GQ000
TSHO: SURFACE
SUJO: 2-510-000
TEMP: A6556
TITL: CONCLUSIONS AND RECOMMENDATIONS OF THE STL AD HOC PANEL ON
ELECTROMAGNETIC RADIATION (U), 17 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02406
ADNO: 339651
CLSS: SRD 1
CONN: AF 04 647 303
CORP: EG+G INCORPORATED (BOSTON-MA)
DATE: 6109
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L9
P87
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L5 TEAK
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5 P88
25
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: THERMAL NEUTRONS GAMMA
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L5
DESC: Nuclear Weapon Environment Visible Output energy spectrum L5
DESC: Nuclear Weapon Environment Induced Radiofrequency Noise 69 P88
DESC: Nuclear Weapon Environment Thermal Output rate L1 UV VISIBLE IR
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L5
NEAR UV TEAK
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 P24
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 VISIBLE RADIATION
REPN: B 2281 ; EGG B 2281
SHOT: TEAK ; ORANGE ; YUCCA
SUJO: 1-110-000 ; 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-420-000 ;
1-520-000 ; 1-740-000 ; 2-110-000 ; 2-400-000 ; 2-510-000 ;
2-530-000 ; 3-133-000 ; 3-211-000
TEMP: 39939
TITL: EFFECTS OF HIGH-ALTITUDE DETONATIONS PERTINENT TO NAVIGATIONAL AND
GUIDANCE SYSTEMS (U), 92 P (SRD)

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copy: 1 id: 38798-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 02483
ABS: This bibliography was prepared at ASTIA in response to inquiries on
the hazards and safety aspects of radiological warfare and nuclear
explosions. Citations are included for reports catalogued at ASTIA
from 1953 through June 1962, and are restricted to classified
reports and unclassified reports with limited distribution. The
subject content is divided into nuclear explosion detection and
monitoring, nuclear explosions nuclear warheads, nuclear weapons,
protection, radiation meters, and radiological warfare.

ADNO: 330030
AUTH: WAINWRIGHT A. ; BALDWIN J.A.
CLSS: S
CORP: ARMED SERVICES TECHNICAL INFORMATION AGENCY (ARLINGTON-VA)
DATE: 6207
DESC: Nuclear Weapon Effects aerospace systems L1 BLAST EFFECTS AIR AND UW
BURST
DESC: Nuclear Warfare Strategic radiological warfare L1
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Environment fallout Deposition L1 FALLOUT
DESC: Nuclear Weapon Effects structures aboveground L1 BLAST
DESC: Nuclear Weapon Information L1
DESC: Nuclear Weapon Effects Biological Ecological Social Systems L1
RADIATION EFFECTS PROTECTION
DESC: Nuclear Weapon Detonation Detection Monitoring L1
DESC: Nuclear Weapon Effects ship systems L1 BLAST
SUJO: 2-225-000 ; 3-110-000 ; 3-120-000 ; 3-250-000 ; 3-300-000 ;
3-422-800 ; 4-830-000 ; 4-900-000
TEMP: 41483
TITL: RADIOLOGICAL WARFARE AND NUCLEAR EXPLOSIONS (U), 89 P, (S)

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copy: 1 id: 38854-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02545
AUTH: WILEY J. ; PATRICK C. ; COON M. ; BECK A.
CLSS: SRD 1
CORP: MARTIN COMPANY (DENVER-CO)
DATE: 5904
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
NEUTRON
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: THEORY TABULAR
REPN: RM 32
TSHO: HI ALT
SUJO: 1-110-000 ; 1-120-000 ; 3-312-100
TEMP: 41673
TITL: PROMPT NEUTRON FLUXES AND BIOLOGICAL DOSES FROM HIGH ALTITUDE
NUCLEAR WEAPON BURSTS (U), 26 P, (SRD)
TREE: 920

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02733
CLSS: SRD 1
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)
DATE: 6205
DESC: SUMMARY
DESC: Nuclear Test Simulation Field Programs concepts capability
philosophy L1 NUCLEAR RADIATION X RAY BLAST EMP THERMAL BIOMETICCAL
REPN: AFSWC SWRC 2 0157
SUJO: 4-810-000
TEMP: 43235
TITL: NUCLEAR EFFECTS RESEARCH AND TESTING, A FIVE YEAR TECHNICAL PLAN
(U), CIRCA 90(SRD)
TREE: 641

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 02761
AUTH: BENNETT H.A.
CLSS: SFRD
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6012
DESC: Nuclear Weapon Effects structures hard launch sites electronics
electrical power systems L1 EMP
DESC: THEORY
EMPF: 365
REPN: SCTM 377 60 71 ; RS 3423 443
SUJO: 3-116-300
TEMP: 43316
TITL: VULNERABILITY OF HARDENED MISSILE LAUNCH SITES TO ELECTROMAGNETIC
RADIATION PRODUCED BY NUCLEAR DETONATION (U), ATOMIC WEAPON DATA,
SIGMA 3, 13 P, (SFRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03209
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6107
DESC: Simulation Facilities Techniques nuclear radiation L1
DESC: Simulation Facilities Techniques biomedical thermal L1
DESC: Non-DNA Organizational Operational Information including Standards
Procedures Vitae Publication Lists L1
DESC: Simulation Facilities Techniques biomedical nuclear radiation L1
DESC: Simulation Facilities Techniques thermal optical L1
SUJO: 4-240-000 ; 4-251-000 ; 4-252-000 ; 4-280-000 ; 4-720-000
TITL: RESOURCES, CAPABILITIES AND ACCOMPLISHMENTS OF THE U.S. NAVAL
RADIOLOGICAL DEFENSE LABORATORY (U), 67 P, (U)

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copy: 1 id: 39328-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03448-1
ADNO: 356874
AUTH: BUTLER G. JR., CONTRERAS L.M., MOSHOFSKY R.P.
CLSS: SRD
CONN: AF 29 601 4128
CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB-NM)
DATE: 6111

DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL THEORY
DESC: Cross Sections neutron
REPN: AFSWC TDR 61 106 VOL 1 ; SWC TDR 61 106 VOL 1
SHOT: OWENS ; HOOD ; WILSON ; CHARLIE(B-J) ; ITEM ; CHARLIE(T-S) ; LAPLACE
; BAKER(B-J) ; UNION ; KOON ; NAVAJO ; DAKOTA ; FLATHEAD ; ZUNI ;
CHEROKEE ; MIKE ; KING
TSHO: LOW-ALT ; WATER-SURFACE ; SURFACE
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ; 2-223-420 ;
9-820-000 ; 9-830-000
TEMP: 45961
TITL: PROCEDURES FOR CALCULATING NUCLEAR RADIATION DOSE AND DOSE RATES
FROM NUCLEAR WEAPONS DETONATED IN THE LOWER ATMOSPHERE, VOLUME 1,
FINAL REPORT (U), 247 P (SRD)
TREE: 910 ; 920
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03448-1
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copy: 1 id: 39468-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03448-2
ADNO: 356875
AUTH: BUTLER G. JR., CONTRERAS L.M., MOSHOFSKY R.P.
CLSS: SRD
CCDE: ZZ (CALCULATION OF DOSE AND DOSE RATES AT A SERIES OF FIXED
HORIZONTAL RANGES AT A FIXED ALTITUDE CALCULATION OF DOSE AND DOSE
RATES TO A RECEIVER MOVING ALONG AN ARBITRARY TRAJECTORY)
CONN: AF 29 601 4128
CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB-NM)
DATE: 6111
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: CODE
DESC: Cross Sections neutron
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
REPN: AFSWC TDR 61 106 VOL 2 ; SWC TDR 61 106 VOL 2
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ; 2-223-420 ;

9-820-000 ; 9-830-000

TEMP: 45962

TITL: PROCEDURES FOR CALCULATING NUCLEAR RADIATION DOSE AND DOSE RATES
FROM NUCLEAR WEAPONS DETONATED IN THE LOWER ATMOSPHERE, VOLUME II,
FINAL REPORT (U), 210 P (SRD)

TREE: 910 ; 920

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03651

ADNO: 361978L

AUTH: TOMA J.S. ; HARRINGTON R.R. ; WILLIAMS J.R.

CLSS: SRD

CORP: AIR FORCE/SYSTEMS COMMAND (WASHINGTON-DC)

DATE: 6206

DESC: Nuclear weapon test yield

DESC: Nuclear Weapon Effects EM Propagation absorption blackout

DESC: Nuclear Weapon Environment Initial Gamma source strength total

intensity

DESC: SURVEY

DESC: Nuclear Warfare Strategic operations scenarios battlefield

environment L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total

fluence

DESC: Nuclear Weapon Environment Thermal Output source strength total

intensity

DESC: Nuclear Weapon Environment Water Shock motion surface waves runup

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Environment Water Shock pressure impulse particle

motion

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: SWC TDR 62 53 ; AFSWC TDR 62 53

TSHO: LOW-ALT ; HI-ALT

SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-223-200 ; 2-321-100 ;

2-611-000 ; 2-631-000 ; 2-633-000 ; 3-312-100 ; 3-421-200 ;

4-835-000

TEMP: 47423

TITL: EVALUATION OF HIGH YIELD WEAPON CAPABILITIES (U), 78 P (SRD)

TREE: 910 ; 920

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03651

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copy: 1 id: 39600-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04246
ADNO: 230086
AUTH: LEDOUX J.C.
CLSS: U
CORP: NAVY/NAVAL CIVIL ENGINEERING LABORATORY (PORT HUENEME-CALIFORNIA)
DATE: 5910
DESC: Cross Sections neutron
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: THEORY TABULAR
REPN: TR 025 ; 025
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 9-820-000 ; 9-830-000
TITL: NUCLEAR RADIATION SHIELDING PROVIDED BY BURIED SHELTERS (U), 65 P
(U)
TREE: 411 ; 412
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04246
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copy: 1 id: 39944-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04258
ADNO: 329755
AUTH: SCHERRER V.E. ; MEHLHORN H.A.
CLSS: U
CONN: AF 33 (616) 6539
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS) ; AIR
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AIR FORCE
BASE-OHIO)
DATE: 6108
DESC: Nuclear Weapon Effects materials not systems associated
DESC: EXPERIMENTAL THEORY
DESC: test instruments x-ray effects
DESC: Cross Sections x-ray
DESC: test instruments electronic vulnerability EMP
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Simulation Facilities Techniques x-ray effects
REPN: TO B 61 43 ; ASD TR 61 377
TSHO: HI-ALT
SUJO: 3-240-000 ; 4-231-000 ; 4-330-000 ; 4-346-000 ; 4-371-000 ;
9-840-000
TEMP: 49623
TITL: STUDY OF NUCLEAR WEAPON X-RAY EFFECTS, FINAL REPORT (U), 158 P (C)
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04258
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copy: 1 id: 39950-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04496
AUTH: SHELTON A.V. ; NORDYKE M.D. ; GOECKERMANN R.H.
CLSS: U
CONN: W 7405 ENG 48 (AEC)
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6004
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock craters excavations
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Ground Shock scaling
DESC: Environmental Conditions at Nuclear Weapon Test Site topography
REPN: UCRL 5766
SHOT: NEPTUNE
TSHO: UG-VENTED
SUJO: 2-223-200 ; 2-621-000 ; 2-624-000 ; 2-625-000 ; 2-629-000 ;
4-843-000
TITL: NEPTUNE EVENT, A NUCLEAR EXPLOSIVE CRATERING EXPERIMENT (U), 32 P
(U)

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copy: 1 id: 40126-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04497
AUTH: THOMPSON T.L. ; MISZ J.B.
CLSS: U
CONN: W 7405 ENG 48 (AEC)
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 5910
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: EXPERIMENTAL
DESC: Environmental Conditions at Nuclear Weapon Test Site geology
DESC: Nuclear Weapon Environment Ground Shock craters excavations
REPN: UCRL 5757
SHOT: RAINIER ; NEPTUNE
TSHO: UG-VENTED ; UG-CONTAINED
SUJO: 2-625-000 ; 2-627-000 ; 4-842-000
TITL: GEOLOGIC STUDIES OF UNDERGROUND NUCLEAR EXPLOSIONS RAINIER AND
NEPTUNE FINAL REPORT (U), 58 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04498

AUTH: JOHNSON G.W.

CLSS: U

CONN: W 7405 ENG 48 (AEC)

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6001

DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: SUMMARY

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling

DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse

DESC: Nuclear Weapon Environment Ground Shock impact pressure stress

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions

DESC: Nuclear Test Simulation Field Programs concepts capability
philosophy

REPN: UCRL 5840

SHOT: RAINIER ; SUGAR ; UNCLE ; ESS ; NEPTUNE

TSHO: UG-CONTAINED ; SURFACE ; UG-VENTED

SUJO: 2-150-000 ; 2-623-000 ; 2-625-000 ; 2-627-000 ; 2-629-000 ;
4-810-000

TITLE: INDUSTRIAL AND SCIENTIFIC APPLICATIONS OF NUCLEAR EXPLOSIONS (U), 33
P (U)

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copy: 1 id: 40128-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04573

AUTH: DAVIS L.W. ; SUMMERS D.L. ; DURAND A.R.

CLSS: SRD

CONN: AF 33 (600) 40514 (AFIC)

CORP: DIKEWOOD CORPORATION (ALBUQUERQUE-NEW MEXICO)

DATE: 6102

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: Nuclear Weapon Environment Airblast effects of topography

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Effects structures aboveground components

DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L1

DESC: Nuclear Weapon Effects animals

DESC: Nuclear Weapon Environment Thermal Output

DESC: TABULAR HANDBOOK

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE
REPN: DC FR 1012
SOCE: VARIOUS EARLY DEVICES
SUJO: 1-110-000 ; 1-120-000 ; 1-200-000 ; 2-611-000 ; 2-612-000 ;
2-613-400 ; 2-626-000 ; 3-251-100 ; 3-310-000 ; 3-421-200 ;
5-200-000
TEMP: 51110
TITL: PHENOMENOLOGY OF BLAST, THERMAL, AND INITIAL NEUTRON RADIATION
PERTINENT TO PERSONNEL CASUALTIES (U), 281 P (SRD)

TREE: 920

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04573

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created: 12/27/1991 type: REPORT permanent

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INUM: 04603
ADNO: 371042
AUTH: WATSON K.M. ; BRUECKNER K.A.
CLSS: C
CORP: GD/CONVAIR DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6100
DESC: THEORY
DESC: thermal protection L1 WATER FOG, 324 L1 THERMAL
REPN: ZPH 049 ADD 1
SUJO: 9-870-000
TEMP: 51106
TITL: USE OF A FOG TO PROVIDE SHIELDING AGAINST THERMAL RADIATION (U), 12
P (S)

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04603

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copy: 1 id: 40188-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 04960
ADNO: 373278
AUTH: BURSON Z.G. ; GRIESMER D.R.
CLSS: SRD
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 5911
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment Ground Shock craters excavations
DESC: SURVEY
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: Cross Sections neutron
DESC: Cross Sections gamma
REPN: AFSWC TR 59 42
SHOT: ZUNI ; DAKOTA ; FLATHEAD ; NAVAJO ; TEWA ; LACROSSE ; MOHAWK ; SUGAR
; MIKE
TSHO: SURFACE ; WATER-SURFACE
SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-223-200 ; 2-625-000 ;
9-820-000 ; 9-830-000
TEMP: 51738
TITL: RADIOLOGICAL PROBLEMS ASSOCIATED WITH HARDENED AIR FORCE
INSTALLATIONS (U), 57P (SRD)
TREE: 411 ; 412

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04960

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copy: 1 id: 40373-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04986

ADNO: 374716L

AUTH: GROSS W.C. JR.

CLSS: SRD

CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)

DATE: 6012

DESC: Target Analysis cities L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: Target Analysis foreign applications USSR L1

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: TABULAR

REPN: 1365

SOCE: DEV-33

SUJO: 1-110-000 ; 1-710-000 ; 3-312-100 ; 3-434-000 ; 3-439-200

TEMP: 51764

TITL: EVALUATION OF THE XM28 AND XM29 WEAPON SYSTEMS AGAINST AN EXPECTED
SOVIET TARGET COMPLEX (U), 44 P (SRD)

TREE: 910 ; 920

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copy: 1 id: 40396-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 05049
AUTH: HENDRICKS J.W. ; SMITH D.L.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6010
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Phenomenology plumes spray domes
DESC: Simulation Facilities Techniques blast shock water shock L1
DESC: EXPERIMENTAL
DESC: test instruments test hardware pressure stress
REPN: NRDL TR 480
SUJO: 2-224-130 ; 2-636-000 ; 4-213-000 ; 4-311-000
TITL: ABOVE AND BELOW-SURFACE EFFECTS OF ONE-POUND UNDERWATER EXPLOSIONS, HYDRA I (U), 228 P(U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05161-154
ADNO: 244784
AUTH: TOMLINSON J.R.
CLSS: U
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)
DATE: 6009
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic sources
SUJO: 4-241-000
SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK, VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28, SEPTEMBER 1960 (U)
TITL: FACILITY FOR RESEARCH IN THE EFFECTS OF PULSED NUCLEAR RADIATIONS (U), 5 P (U)
TREE: 642

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copy: 1 id: 40524-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05161-159
ADNO: 244784
AUTH: FLORA J.W.

CLSS: U
CORP: ATOMICS INTERNATIONAL (CANOGA PARK-CALIFORNIA)
DATE: 6009
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
DESC: SURVEY
SUJO: 4-241-000
SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK,
VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28,
SEPTEMBER 1960 (U)
TITL: LABORATORY SIMULATION OF THE RADIATION ENVIRONMENT PRODUCED BY A
NUCLEAR DETONATION (U), 13 P (U)

TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05161-182
ADNO: 244784
AUTH: ZAGORITES H.A. ; CARR E.A. ; DURKEE J.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6009
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers

SUJO: 3-221-000

SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK,
VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28,
SEPTEMBER 1960 (U)

TITL: TRANSIENT EFFECTS IN MILITARY ELECTRONIC EQUIPMENT EXPOSED TO
NUCLEAR FALLOUT (U), 8 P (U)

TREE: 310

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created: 12/27/1991 type: REPORT permanent

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INUM: 05815
ADNO: 321257
AUTH: SNAY H.G.
CLSS: U
CORP: NAVY/NAVAL ORDNANCE LABORATORY (WHITE OAK-MARYLAND)
DATE: 6009

DESC: Nuclear Weapon Phenomenology plumes spray domes
DESC: Nuclear Weapon Environment Water Shock special studies temperature
gradients

DESC: Nuclear Weapon Phenomenology base surge
DESC: Fluid Mechanics hydrodynamics
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Environment Water Shock scaling
DESC: Nuclear Weapon Environment fallout transfer
DESC: THEORY SUMMARY
REPN: NAVWEPS 7323
TSHO: UW
SUJO: 2-224-120 ; 2-224-130 ; 2-224-300 ; 2-634-000 ; 2-636-000 ;
2-639-000 ; 9-410-000

TITL: HYDRODYNAMIC BACKGROUND OF THE RADIOLOGICAL EFFECTS OF UNDERWATER
NUCLEAR EXPLOSIONS (U), 48 P (C)

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05815

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copy: 1 id: 40864-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05855
ADNO: 250704L
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6005
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

DESC: SUMMARY
SUJO: 4-140-000
TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL IV, HEADS OF DELEGATIONS
CLOSING REMARKS REVIEWS AND LECTURES NO. 103 (U), 14 P (U)

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copy: 1 id: 40899-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05897
ADNO: 318823
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6005
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: LOCAL FALLOUT ; EXPERIMENTAL
SHOT: BRITISH (56-05-16 ; BRITISH (56-06-19) ; BRITISH (52-10-03)
TSHO: LOW-ALT ; WATER-SURFACE
SUJO: 2-223-410 ; 2-223-420 ; 3-312-000
TEMP: 55403
TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOLUME III, REVIEWS AND LECTURES
NO. 103 (U), 35 P (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05897-1
ADNO: 318823
AUTH: SOOLE B.W.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: Nuclear Weapon Phenomenology cloud shape size L5
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
DESC: Nuclear Weapon Phenomenology cloud development rise
LA: UK
SHOT: BRITISH (52-10-03)
TSHO: WATER-SURFACE
SUJO: 2-110-000 ; 2-224-100 ; 2-224-140
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM TECHNICAL STATUS OF RADIOLOGICAL
DEFENSE IN THE FLEETS, VOL III
TITL: SURFACE PHENOMENA AT OPERATION HURRICANE (U), 4 P (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05897-2
ADNO: 318823
AUTH: SOOLE B.W.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay
LA: UK
SHOT: BRITISH (52-10-03)

TSHO: WATER-SURFACE
SUJO: 2-223-400
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III
TITL: DECAY RATES OF FALL-OUT AT OPERATION HURRICANE (U), 10 P (S)

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copy: 1 id: 40934-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05897-3
ADNO: 318823
AUTH: SOOLE B.W.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Environment fallout intensity contours patterns

LA: UK

SHOT: BRITISH (52-10-03)
TSHO: WATER-SURFACE
SUJO: 2-223-200 ; 2-223-420 ; 2-225-100 ; 2-225-300
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III
TITL: FALLOUT DISTRIBUTION AT OPERATION HURRICAN (U), 22 P (S)

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copy: 1 id: 40935-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05897-4
ADNO: 318823
AUTH: MORGAN D.T.G.
CLSS: S
CORP: UNITED KINGDOM
DATE: 6005
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Effects on animals ionizing radiation

LA: UK

SHOT: BRITISH (56-05-16) ; BRITISH (56-06-19)
TSHO: LOW-ALT
SUJO: 2-223-200 ; 3-312-000

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III

TITL: H.M.S. DIANA IN LIGHT FALLOUT, OPERATION MOSAIC (U), 18 P (S)

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copy: 1 id: 40936-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05898

ADNO: 322767

CLSS: C

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6005

DESC: Nuclear Weapon Effects ship systems surface ships

REPN: RI 103

SUJO: 3-122-000

TEMP: B8542

TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS VOLUME II (U), 278 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-1

ADNO: 322767

AUTH: SNAY H.G.

CLSS: C

CORP: NAVY/NAVAL ORDNANCE LABORATORY (WHITE OAK-MARYLAND)

DATE: 6005

DESC: SUMMARY

DESC: Nuclear Weapon Environment Water Shock bubbles

SUJO: 2-636-000

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II

TITL: HYDRODYNAMIC BACKGROUND OF THE RADIOLOGICAL EFFECTS OF UNDERWATER
NUCLEAR EXPLOSIONS (U), 47 P (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05898-2
ADNO: 322767
AUTH: SCHUERT E.A.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6005
DESC: Nuclear Weapon Environment fallout transfer
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Phenomenology base surge
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Phenomenology plumes spray domes
DESC: SURVEY
SHOT: BAKER(XRD) ; WIGWAM ; WAHOO ; UMBRELLA
TSHO: UW
SUJO: 2-223-200 ; 2-224-120 ; 2-224-130 ; 2-224-300 ; 2-225-100 ; 2-636-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: DISPOSITION OF THE BOMB DEBRIS FROM AN UNDERWATER NUCLEAR EXPLOSION (U) 20 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-3
ADNO: 322767
AUTH: EVANS E.C.III.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6005
DESC: Nuclear Weapon Phenomenology base surge
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Effects ship systems surface ships
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
SHOT: UMBRELLA ; WAHOO
TSHO: UW
SUJO: 2-223-200 ; 2-224-120 ; 2-225-100 ; 3-122-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SOME OBSERVATIONS AND SPECULATIONS ON BASE SURGE PHENOMENA (U), 22 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05898-4
ADNO: 322767
AUTH: KENDRICK S.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: THEORY EXPERIMENT
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Phenomenology base surge
DESC: Nuclear Weapon Phenomenology cloud columns stems
LA: UK
TSHO: UW
SUJO: 2-224-110 ; 2-224-120 ; 2-636-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: THEORETICAL ASPECTS OF EVENTS LEADING TO THE DEVELOPMENT OF THE BASE
SURGE (U), 20 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05898-5
ADNO: 322767
AUTH: HART W.D.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology base surge
LA: UK
TSHO: UW
SUJO: 2-224-120
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SIMULATION OF WATER SURFACE EFFECTS FROM UNDERWATER ATOMIC
EXPLOSIONS BY HIGH EXPLOSIVE CHARGES WITHIN THE RANGE 300 8500 LB
(U), 18 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05898-6
ADNO: 322767
AUTH: KENDRICK S.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: Nuclear Weapon Phenomenology base surge
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology cloud columns stems
LA: UK
TSHO: UW
SUJO: 2-224-110 ; 2-224-120
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: MICROSCALE EXPERIMENTS ON THE FORMATION AND COLLAPSE OF PLUMES AND
COLUMNS (U), 40 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-7
ADNO: 322767
AUTH: MILLER C.F.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6005
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Environment fallout fractionation
DESC: SURVEY
DESC: Nuclear Weapon Environment Fallout Formation mechanics
TSHO: UW
SUJO: 2-221-000 ; 2-223-500 ; 2-225-100
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: FORMATION AND PROPERTIES OF SEAWATER FALLOUT (U), 14 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-8
ADNO: 322767
AUTH: MORGAN D.T.G.
CLSS: C

CORP: UNITED KINGDOM
DATE: 6005
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
LA: UK
TSHO: LOW-ALT
SUJO: 2-222-100 ; 2-223-100
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SOME SOLUBILITY EXPERIMENTS ON MOSAIC AND GRAPPLE FALLOUT (U), 10 P
(C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05898-9
ADNO: 322767
AUTH: LARIVIERE P.D.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6005
DESC: YAG-39 ; SURVEY
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Nuclear Weapon Effects ship systems surface ships
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Environment fallout transport
TSHO: UW ; WATER-SURFACE
SUJO: 2-223-420 ; 2-224-200 ; 3-122-000 ; 3-312-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SHIPBOARD RADIATION FOLLOWING NUCLEAR EXPLOSIONS IN SEAWATER (U), 21
P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05898-10
ADNO: 322767
AUTH: BEALE E.M.L.
CLSS: C
CORP: UNITED KINGDOM

DATE: 6005
DESC: Nuclear Weapon Environment fallout down fraction
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout transport
LA: UK
SUJO: 2-224-200 ; 2-225-100 ; 2-225-200
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: DEVELOPMENT OF BRITISH IDEAS ON THE DISTRIBUTION OF MEDIUM RANGE
FALLOUT (U), 24 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-11
ADNO: 322767
AUTH: MILES J.A.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
LA: UK
SUJO: 4-140-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SOME OPERATIONAL PROBLEMS REQUIRING PRECISE DATA ON FALLOUT EFFECTS
(U), 4 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-12
ADNO: 322767
AUTH: WILLIAMS J.H.
CLSS: C
CORP: UNITED KINGDOM
DATE: 6005
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma angular distribution
DESC: Nuclear Weapon Effects ship systems surface ships
DESC: Radiation Transport gamma
LA: UK

SUJO: 1-730-000 ; 3-122-000 ; 9-620-000
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II
TITL: SHIP SHIELDING (U), 26 P (C)

TREE: 411

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copy: 1 id: 40941-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05898-13

ADNO: 322767

AUTH: COOK C.S.

CLSS: C

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6005

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

SUJO: 2-223-200

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II

TITL: NEUTRON INDUCED ACTIVITY FROM WEAPONS (U), 7 P (C)

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copy: 1 id: 40942-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 06063

ADNO: 819646

AUTH: GRANT D.A. ; WOOD M.K.

CLSS: U

CORP: DEFENCE RESEARCH BOARD/DEFENCE CHEMICAL BIOLOGICAL AND RADIATION
LABORATORIES (OTTOWA-CANADA) ; DEPARTMENT OF DEFENSE/DIRECTOR OF
DEFENSE RESEARCH AND ENGINEERING (WASHINGTON-D.C.)

DATE: 6008

DESC: TABULAR

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Effects structures aboveground components

LA: CANADA

SUJO: 2-611-000 ; 3-251-100

TITL: CHARTS FOR ESTIMATING BLAST HAZARD FROM MISSILE ATTACK (U), 19 P (U)

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copy: 1 id: 41100-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06428
ADNO: 316898
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; SALTONSTALL C.W. ;
VILTER E.J.
CLSS: U
CONN: AF 33 (616) 5792
CORP: AEROJET-GENERAL CORPORATION (AZUSA-CALIFORNIA)
DATE: 6003
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
DESC: Nuclear Weapon Effects materials carbon
REPN: R 1764
SUJO: 3-248-000 ; 4-241-000
TITL: EFFECT OF HIGH AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET
PROPELLANTS, FINAL REPORT (U), 125 P (C)

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06428

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copy: 1 id: 41290-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06464-15
ADNO: 323311
AUTH: HALEY K.J.
CLSS: U
CONN: AF 33 (616) 36514
CORP: THIOKOL CHEMICAL CORPORATION (ELKTON-MARYLAND)
DATE: 6008
DESC: Nuclear Weapon Effects materials carbon
DESC: EXPERIMENTAL
REPN: AS 60 V 002 02622
SUJO: 3-248-000
SYMJ: TRANSACTIONS OF THE FIFTH SYMPOSIUM ON BALLISTIC MISSILE AND SPACE
TECHNOLOGY, VOLUME II PROPULSION (U)
TITL: RADIATION EFFECTS ON THE PHYSICAL AND BALLISTIC PROPERTIES OF
MINUTEMAN SOLID PROPELLANT (U), 28 P (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06949

AUTH: WILKINS M. ; FRENCH J. ; GIROUX R.
CLSS: U
CCDE: KO
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6207
DESC: CODE
DESC: Fluid Mechanics hydrodynamics
REPN: UCRL 6919
SUJO: 9-410-000
TITL: COMPUTER PROGRAM FOR CALCULATING ONE-DIMENSIONAL HYDRODYNAMIC FLOW
KO CODE (U), 21 P (U)

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copy: 1 id: 41659-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07042

ABS: This contractual effort was undertaken to provide the Air Force with the basic data required to evaluate the initial-and residual radiation hazards arising from very-low-yield nuclear bursts (2 pounds to 20 tons) which might occur during an accident involving nuclear weapons. A graphical summary is presented of the initial-gamma and prompt-neutron radiation for various relative air densities from 0.5 to 1.0 for slant ranges out to 1,200 yards and of the induced soil activation (both doses and dose rates) for various slant ranges (10 to 400 yards), times, and soil compositions. A graphical summary is also presented of the close-in fallout (both doses and dose rates) versus downwind range (approximately 10 to 3,000 yards) for various nuclear yields from 2 pounds to 20 tons, high-explosive weights from 25 to 500 pounds, and no-shear wind speeds from 5 to 30 knots. (u)

ADNO: 362282
AUTH: DAVIS L.W. ; SUMMERS D.L.
CLSS: SRD 1
CONN: AF 29 (601) 4573
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; DIKEWOOD CORPORATION (ALBUQUERQUE-NM)
DATE: 6204
DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity
DESC: Nuclear Warfare Theater operations scenarios battlefield environment L1
DESC: SUMMARY TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Phenomenology cloud development rise
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear weapon safety radiological
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment fallout down fraction
DESC: Nuclear Weapon Environment fallout intensity contours patterns
REPN: AFSWC TDR 62 034 ; SWC TDR 62 34
SHOT: HAMILTON ; HUMBOLDT ; FIG
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ;
2-224-100 ; 2-225-100 ; 2-225-200 ; 2-225-300 ; 3-411-200 ;
4-838-100
TEMP: 59092
TITL: INITIAL AND RESIDUAL RADIATION FROM VERY-LOW-YIELD NUCLEAR BURSTS
(U), 114 P (SRD)
TNFF: 4850 ; 4860 ; 8859
TREE: 910 ; 920

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07047
AUTH: HENDERSON B.J.
CLSS: U
CORP: GENERAL ELECTRIC COMPANY (EVANDALE-OH)
DATE: 5908
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: THEORY
DESC: Cross Sections gamma
DESC: Cross Sections neutron
REPN: XDC 59 8 179
SUJO: 3-312-000 ; 9-820-000 ; 9-830-000
TITL: CONVERSION OF NEUTRON OR GAMMA RAY FLUX TO ABSORBED DOSE RATE,
ABSTRACT OF REPORT NO. XDC 59-8-179 (U), 27 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07054
AUTH: WHITE C.S.
CLSS: U
CONN: AT (29 1) 1242
CORP: LOVELACE FOUNDATION (ALBUQUERQUE-NEW MEXICO)
DATE: 5909
DESC: SURVEY
DESC: Nuclear Weapon Effects on animals blast shock pressure
DESC: Nuclear Weapon Effects on animals blast shock missiles
REPN: TID 5564

SUJO: 3-311-100 ; 3-311-300
TITL: BIOLOGICAL BLAST EFFECTS, PRESENTED BEFORE THE SPECIAL SUBCOMMITTEE
ON RADIATION OF THE JOINT COMMITTEE ON ATOMIC ENERGY DURING HEARINGS
ON THE BIOLOGICAL AND ENVIRONMENTAL EFFECTS OF NUCLEAR WAR,
WASHINGTON D.C., 24 JUNE 1959

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07276
ADNO: 277900
AUTH: WAINWRIGHT A. ; BALDWIN J.A.
CLSS: U
CORP: DEFENSE DOCUMENTATION CENTER (ALEXANDRIA-VA)
DATE: 6207
DESC: BIBLIOGRAPHY
TITL: RADIOLOGICAL WARFARE, A REPORT BIBLIOGRAPHY (U) 125 P (U)

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copy: 1 id: 41902-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07322
AUTH: ALLEN L. JR. ; BEAVERS J.L. II ; WHITAKER W.A. ; WELCH J.A. JR. ;
WALTON R.B.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 5904
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris
SHOT: ARGUS-1 ; ARGUS-2
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-344-000 ; 4-822-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 8 (U), P 893,
AUGUST, 1959
TITL: PROJECT JASON MEASUREMENT OF TRAPPED ELECTRONS FROM A NUCLEAR DEVICE
BY SOUNDING ROCKETS (U), 15 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 07475
ADNO: 387140
AUTH: DEGGES T.C. ; CARPENTER R. O'B.
CLSS: SRD
CONN: AF 19 628 219
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)
DATE: 6212
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1 NOT STARFISH
DESC: EXTRA STRATOSPHERIC OBSERVATION ; THEORY SUMMARY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1 NOT STARFISH
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L1 NOT STARFISH
REPN: AFCRL 63 210 ; GCA TR 62 30 A
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-160-000 ; 2-211-000 ; 2-214-000 ; 2-311-000 ; 2-312-400
TEMP: A0298
TITL: COMPUTATION OF ATMOSPHERIC COMPOSITION CHANGES, INFRARED RADIATION,
AND EVALUATION OF BACKGROUND FLUCTUATIONS ON SYSTEMS (U), FINAL
REPORT, 266 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07736
AUTH: BITTNER B.J. ; JESSEN P.L. ; CONNORS R.J. ; MALONE C.P. ; HOFFMAN
J.R. ; PRICE H.J. ; SHURKE R.V.
CLSS: U
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-COLORADO)
DATE: 6011
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
EFFT: EMP
EMPF: 385
REPN: KN 60 54 (R)
SUJO: 3-162-000
TITL: HAZARD CREATED BY ELECTROMAGNETIC RADIATION TO SYSTEMS UTILIZING
ELECTRO-EXPLOSIVE DEVICES (U), 138 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08174

AUTH: REED J.W.

CLSS: U

CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)

DATE: 6006

DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external

DESC: Nuclear Weapon Environment fallout accumulation rate

DESC: Nuclear Weapon Test safety

DESC: THEORY EXPERIMENTAL

REPN: SC 4414 (RR)

TSHO: LOW-ALT

SUJO: 2-223-420 ; 2-225-400 ; 3-312-210 ; 4-856-000

TITL: COMPARISON OF FALLOUT DOSES FROM NEVADA TESTS, REVISED (U), 46 P (U)

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copy: 1 id: 42352-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08207

ADNO: 460852

AUTH: LONG E.R.

CLSS: U

CONN: AF 29 (601) 1166

CORP: SANDBERG-SERRELL CORPORATION (PASADENA-CA) ; AIR FORCE

DATE: 5905

DESC: TABULAR

DESC: Nuclear Weapon Effects structures hard launch sites materials

DESC: Nuclear Weapon Effects materials plastics resins

EFFT: AIRBLAST ; THERMAL ; NUCLEAR RADIATION ; GROUND SHOCK

REPN: AFSWC TR 59 49

SUJO: 3-116-200 ; 3-244-000

TITL: ANALYTICAL STUDIES, INVESTIGATION, AND PRELIMINARY DESIGNS OF DOOR
AND FOUNDATION SEALS FOR PROTECTIVE STRUCTURES, TECHNICAL REPORT

(U), 106 P (U)

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INUM: 08240
ADNO: 272546
AUTH: ANTHONY A.E. JR. ; OMODA E.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6202
DESC: TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Radiation Transport neutron
REPN: AFSWC TDR 62 17
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 9-650-000
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF
500,000 FEET (U), 35 P (U)
TREE: 980

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INUM: 08268
AUTH: CALLER J.M.
CLSS: U
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6104
DESC: Nuclear Weapon Effects electronic subsystems
DESC: EXPERIMENTAL
EFFT: TREE ; NUCLEAR RADIATION
REPN: SCTM 62 61 (14)
SUJO: 3-210-000
TITL: STUDY OF PULSE VOLTAGES DEVELOPED BY COAXIAL CABLES DURING PULSED
NEUTRON IRRADIATION (U), 27 P (U)
TREE: 390

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INUM: 08300
ADNO: 622301
AUTH: MAROTTA C. ; BUGER W.
CLSS: U

CCDE: ZZ
CONN: DA 49 186 ORD 1012
CORP: UNITED NUCLEAR CORPORATION (WHITE PLAINS-NY)
DATE: 6204
DESC: THEORY
DESC: Radiation Transport neutron
REPN: UNC 5006
SUJO: 9-650-000
TITL: DESCRIPTION OF AN IBM-7090 MONTE CARLO PROGRAM (UNC-90-6) FOR THE
SOLUTION OF THE TIME DEPENDENT NEUTRON TRANSPORT PROBLEM IN AN
ATMOSPHERE WITH DENSITY DEPENDENT ON HEIGHT (U), 55 P (U)

TREE: 980

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INUM: 08389

ADNO: 265363

AUTH: BABCOCK R.V. ; REICHERT J.D. ; RUBY S.L.

CLSS: U

CONN: AF 29 (601) 2770

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ;
WESTINGHOUSE MATERIALS LABORATORIES (PITTSBURGH-PA)

DATE: 6108

DESC: test instruments nuclear radiation neutron

DESC: SUMMARY

DESC: Cross Sections neutron

REPN: AFSWC TR 61 57

SUJO: 4-342-000 ; 9-820-000

TITL: SOLID STATE JUNCTION FAST NEUTRON SPECTROMETERS, APPENDIX II (U), 95
P (U)

TREE: 652

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INUM: 08471

ABS: Navy gray paint surfaces were contaminated at shot Wahoo and shot
umbrella during operation Hardtack. Samples of these surfaces were
decontaminated in laboratory tests by methods simulating fire
hosing, steam cleaning, and mechanical scrubbing, both with and
without chemical additives. The results are compared with those from
similar decontamination studies conducted at Operation Wigwam and in
the laboratory using synthetic fallout.

ADNO: 315492
AUTH: LANE W.B. ; MILLER C.F.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5909
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: EXPERIMENTAL
REPN: USNRDL TR 0384
SHOT: WAHOO ; UMBRELLA
TSHO: UW
SUJO: 2-223-420 ; 3-312-210
TEMP: A5360
TITL: DECONTAMINATION STUDIES WITH NAVY GRAY PAINT SURFACES CONTAMINATED
AT OPERATION HARDTACK (U), 64 P (C)

TNFF: 6290

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INUM: 08493

ABS: A fallout-prediction method should be based on all the dynamics of the fall-out process, but current prediction models do not provide more than generalized answers because they do not account for early-time dynamics. A theory for close-in fallout has been derived in a recent attempt to account for the entire process. In this study, the new theory is checked by developing a mathematical fallout-prediction model. This model is used to predict fallout patterns from 3 low-yield (about 1 KT) nuclear weapons. These patterns are then compared with the measured test patterns and also with patterns calculated with 2 other prediction models. Based on these comparisons, it is concluded that the theory is valid, at least for low-yield land-surface and shallowunderground bursts.

ABS: For underground bursts having a significant base surge, it is indicated that the model will have to be modified to take this effect into account before successful prediction can be expected. Since the basic fall-out phenomena associated with a land-surface burst of low yield are essentially the same as those for a high yield, it is now considered feasible to proceed with checking the theory for higher-yield land-surface bursts. Preliminary results indicate that the theory can be used to give successful predictions for shots in the moderate and high yield ranges. Accordingly, the model has been programed for an electronic computer for land-surface bursts through the 1-KT to 100-KT range of weapon yields. (auth)
COMPUTERS; DISTRIBUTION; EQUATIONS; FALLOUT; NUCLEAR EXPLOSIONS

ADNO: 234359
AUTH: ANDERSON A.D.
CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5901
DESC: Nuclear Weapon Environment Fallout Formation mechanics
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Environment Fallout Particles size distribution
DESC: THEORY
REPN: USNRDL TR 289
SHOT: SUGAR ; ESS ; UNCLE
SUJO: 2-221-000 ; 2-222-300 ; 2-225-100
TITL: APPLICATION OF THEORY FOR CLOSE-IN FALLOUT TO LOW-YIELD LAND SURFACE
AND UNDERGROUND NUCLEAR DETONATIONS (U), 53 P (U)

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INUM: 08494
ADNO: 233607
AUTH: CHAN H.K.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5902
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Fallout Particles size distribution
DESC: Nuclear Weapon Environment Fallout Particles physical
characteristics
DESC: LOCAL FALLOUT ; EXPERIMENTAL
REPN: NRDL TR 314
SUJO: 2-222-200 ; 2-222-300 ; 2-223-200
TITL: ACTIVITY-SIZE RELATIONSHIP OF FALLOUT PARTICLES FROM TWO SHOTS,
OPERATION REDWING (U), 68 P (U)

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INUM: 08495
ADNO: 239961
AUTH: MATHER R.L.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5901
DESC: LOCAL FALLOUT 18 MIN TO 200 MIN ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout transport
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: NRDL TR 344

SHOT: WILSON ; OWENS
SUJO: 2-223-200 ; 2-224-200
TITL: CHANCE OBSERVATIONS OF FALLOUT CLOUD TRANSIT RADIATION AT OPERATION
PLUMBBOB (REVISED) (U), 16 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08496
ADNO: 233344
AUTH: HENRY G. ; ANDERSON A.D.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5912
DESC: THEORY TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment fallout intensity contours patterns
REPN: USNRDL TR 390
TSHO: LOW-ALT ; SURFACE
SUJO: 2-225-100 ; 2-225-300 ; 3-312-100
TITL: DOSE-TIME-DISTANCE CURVES FOR CLOSE-IN FALLOUT FOR LOW YIELD
LAND-SURFACE NUCLEAR DETONATIONS (U), 14 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08500
ADNO: 233076
AUTH: CHAN H.K.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5909
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: EXPERIMENTAL
REPN: USNRDL TR 363
SUJO: 2-223-420 ; 4-345-000 ; 4-821-000
TITL: ANALYSIS OF STANDARD-PLATFORM WIND BIAS IN FALLOUT COLLECTION AT
OPERATION REDWING (U), 46 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08502

ADNO: 606326

AUTH: MITCHELL H.H.

CLSS: U

CONN: AF 49 (638) 700

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6108

DESC: Nuclear Warfare Postattack Recovery civilians population L1

DESC: SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

DESC: Nuclear Weapon Effects ecological

REPN: RM 2801 PR

SUJO: 3-312-100 ; 3-341-000 ; 3-442-000

TITL: ECOLOGICAL PROBLEMS AND POSTWAR RECUPERATION, A PRELIMINARY SURVEY
FROM THE CIVIL DEFENSE VIEWPOINT (U), 38 P (U)

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INUM: 08505

ADNO: 232898

AUTH: MACKIN J.L. ; ZIGMAN P.E. ; STROM P.O. ; NUCKOLLS M.J.

CLSS: U

CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5908

DESC: SUMMARY TABULAR EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay L2 1 SEC TO 4 MIN

DESC: Orbital Mechanics L1

REPN: USNRDL TR 359 ; NS 081 001 ; AW 7

SUJO: 2-223-400 ; 9-100-000

TITL: EARLY TIME DECAY OF FISSION PRODUCT MIXTURES. I. SCINTILLATION
COUNTER MEASUREMENTS FOLLOWING THERMAL NEUTRON FISSION OF U 235 (U)
TECHNICAL REPORT, 16 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08507
ADNO: 232085
AUTH: FREILING E.C.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5910
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Environment fallout fractionation
DESC: EXPERIMENTAL SUMMARY
REPN: USNRDL TR 385
TSHO: SURFACE ; WATER-SURFACE
SUJO: 2-223-410 ; 2-223-500
TTTL: FRACTIONATION I. HIGH-YIELD SURFACE BURST CORRELATION (U), 33 P (U)

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INUM: 08538
ADNO: 926094
AUTH: DAY R.P. ; ALVARES N.J. ; LAUGHRIDGE F.I. ; ULBERG J.C. ; HAMMOND
R.R.

CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5901
DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL TIME
DESC: Nuclear weapon test yield
DESC: Nuclear Weapon Environment Thermal Output rate
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L9 P 56 ENERGY PARTITION

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity

REPN: USNRDL TR 309

SHOT: SMOKY ; FRANKLIN PRIME ; DOPPLER ; SHASTA ; STOKES ; OWENS ; KEPLER
; JOHN ; DIABLO ; HOOD ; PRISCILLA ; WILSON ; FRANKLIN ; BOLTZMANN

TSHO: LOW-ALT

SUJO: 1-210-000 ; 1-240-000 ; 2-150-000 ; 2-611-000 ; 4-835-000

TEMP: A8114

TTTL: AIRBORNE THERMAL RADIATION MEASUREMENTS AT OPERATION PLUMBBOB (U),
74 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08542
ADNO: 231332
AUTH: ANDERSON A.D.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5910
DESC: Nuclear Weapon Environment fallout accumulation rate
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: Nuclear Warfare Theater operations scenarios battlefield environment
L1
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout intensity contours patterns
REPN: USNRDL TR 0369
SUJO: 2-225-100 ; 2-225-400 ; 3-411-200 ; 4-821-000
TITL: WIND-MEASURING SYSTEM FOR THE TACTICAL PREDICTION OF FALLOUT (U), 32
P (U)
TNFF: 4860

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INUM: 08543
ADNO: 227444
AUTH: GIBBONS M.G. ; RUDKIN R.L. ; NICHOLS J.R. ; LAUGHRIDGE F.I. ;
STURGIS R.L. ; KRENIK R.J.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5907
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques thermal optical
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
REPN: USNRDL TR 357
SUJO: 4-280-000 ; 5-200-000
TITL: GROUND-TO-AIR TRANSMISSION OF VISIBLE AND NEAR INFRARED RADIATION
FROM A 4-PI SOURCE (U), 32 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 08548
ADNO: 226250
AUTH: FARLOW N.H.
CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5904
DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment Fallout Particles size distribution
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout transfer
REPN: USNRDL TR 347
TSHO: WATER-SURFACE
SUJO: 2-222-300 ; 2-224-300 ; 2-225-300
TITL: ATMOSPHERIC REACTIONS OF SLURRY DROPLET FALLOUT (U), 31 P (U)

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INUM: 08549
ADNO: 229199
AUTH: COOK C.S.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5910
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL
REPN: USNRDL TR 318
SUJO: 2-223-200 ; 2-223-420
TITL: ENERGY SPECTRUM OF GAMMA RADIATION FROM FALLOUT (U), 24 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08550
ADNO: 229280
AUTH: SCHELL W.R.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5909
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility
DESC: EXPERIMENTAL
REPN: NRDL TR 364
SHOT: FLATHEAD ; NAVAJO
TSHO: WATER-SURFACE
SUJO: 2-222-100
TITL: IDENTIFICATION OF MICRON-SIZED, INSOLUBLE-SOLIDS FALLOUT PARTICLES

COLLECTED DURING OPERATION REDWING (U), 23 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08564

ADNO: 60660

AUTH: LAITIN H.

CLSS: U

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6111

DESC: SURVEY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: P 2523

SUJO: 3-312-100

TITL: SOME EFFECTS OF RADIATION ON MAN (U), 18 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08576

ADNO: 241240

AUTH: MILLER C.F.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6005

DESC: Nuclear Weapon Environment radiation decay

DESC: THEORY TABULAR

DESC: Nuclear Weapon Environment Fallout Formation mechanics

DESC: Nuclear Weapon Environment Fallout Particles

REPN: USNRDL TR 425

SUJO: 2-221-000 ; 2-222-000 ; 2-223-400

TITL: THEORY OF FORMATION OF FALLOUT FROM LAND-SURFACE NUCLEAR DETONATIONS
AND DECAY OF THE FISSION PRODUCTS (U), 120 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08577

ABS: A fall-out computation method should be based on all the dynamics of the fall-out process, but current computation models do not provide more than generalized answers because they do not account for early time dynamics. In the attempt to account for the entire process, a theory for close-in fall-out was originated. This theory was checked by developing from it a mathematical fall-out model for land-surface bursts and then using this model to compute fall-out dose-rate patterns for two low-yield nuclear tests in Nevada. From a comparison of these patterns with the measured test patterns, it is concluded that the theory, as embodied in the D model, is sound, at least for low-yield land-surface bursts. Also, preliminary results indicate that the theory can be used to give accurate computations for bursts in the moderate and high-yield ranges. (auth) COMPUTERS; EARTH; EFFICIENCY; FALLOUT;

ABS: MATHEMATICS; MEASURED VALUES; NUCLEAR EXPLOSIONS; PROGRAMMING; RADIATION DOSES; STANDARDS; SURFACES

ADNO: 236207
AUTH: ANDERSON A.D.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6004
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: THEORY EXPERIMENTAL
REPN: USNRDL TR 410
SHOT: SUGAR ; UNCLE
TSHO: UG-VENTED ; SURFACE
SUJO: 2-225-100
TITL: NRDL DYNAMIC MODEL FOR FALLOUT FROM LAND-SURFACE NUCLEAR BURSTS (U),
48 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08578
ADNO: 260391
AUTH: KALTWASSER M.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6106
DESC: THEORY
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Environment Water Shock velocity arrival time
spectrum duration
REPN: USNRDL TR 513
TSHO: UW
SUJO: 2-632-000 ; 2-636-000
TITL: HYDRA PROGRAM UNDERWATER EXPLOSION BUBBLES TIME HISTORY (U), 16 P
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08589
ADNO: 256807
AUTH: SHAPIRO E.S. ; HUEBSCH I.O.
CLASS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6105
DESC: THEORY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: USNRDL TR 507
SUJO: 2-223-200
TITL: CALCULATION OF RADIATION DOSE RATE FROM CYLINDRICAL AIRBORNE
FISSION-PRODUCT SOURCES (U), 31 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08595
ADNO: 655426
AUTH: TOMOEDA S. ; HASTINGS M.B. ; MILLER W.G.
CLASS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6004
DESC: EXPERIMENTAL
DESC: Cross Sections gamma L1 STEEL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
REPN: USNRDL TR 412
SUJO: 3-312-210 ; 9-830-000
TITL: EXPERIMENTAL DATA OF GAMMA-RAY PENETRATION INTO THE COMPARTMENTS OF
A LIGHT AIRCRAFT CARRIER (U), 160 P (U)
TREE: 411

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created: 12/27/1991 type: REPORT permanent

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INUM: 08640

ADNO: 287649
AUTH: ZAGORITES H.A. ; CARR E.A. ; LEE D.Y.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6208
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
EFFT: NUCLEAR RADIATION
REPN: USNRDL TR 577
SUJO: 3-221-000
TITL: EFFECTS OF NUCLEAR RADIATION ON SHIPBOARD ELECTRONIC EQUIPMENT, 1.
SOME EFFECTS OF SIMULATED TRANSIT RADIATION ON PARTS, A. TRANSISTORS
(U), 234 P (U)

TREE: 310

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created: 12/27/1991 type: REPORT permanent

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INUM: 08697
ADNO: 242509
AUTH: WELLS M.B.
CLSS: U
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX)
DATE: 6008
DESC: TABULAR
DESC: Radiation Transport neutron
REPN: NARF 60 8 T ; FZK 9 147 VOL 2
SUJO: 9-650-000
TITL: MONTE CARLO CALCULATIONS OF FAST-NEUTRON SCATTERING IN AIR (U), 277
P (U)

TREE: 970

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08697

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copy: 1 id: 42797-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08700
ADNO: 242934
AUTH: MARCUM J.I.
CLSS: U
CCDE: ZZ
CONN: AF 49 (638) 700
CORP: RAND CORPORATION (SANTA MONICA-CA)
DATE: 6007

DESC: AIR ; THEORY TABULAR CODE
DESC: Cross Sections neutron
DESC: Radiation Transport neutron
REPN: RM 2556
SUJO: 9-650-000 ; 9-820-000
TITL: NEUTRON FLUXES IN AIR, A COMPARISON OF MONTE CARLO CODE COMPUTATIONS
BY RAND, LOS ALAMOS, AND SANDIA (U), 57 P (U)
TREE: 970

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08700
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copy: 1 id: 42799-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 08701
ADNO: 270624
AUTH: WELLS M.B.
CLSS: U
CCDE: C-18
CONN: DA 23 072 ORD 1407
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX)
DATE: 6112
DESC: THEORY CODE
DESC: Cross Sections gamma
DESC: Cross Sections neutron
DESC: Radiation Transport gamma
DESC: Radiation Transport neutron
REPN: FZK 134 3
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION, FINAL REPORT,
VOLUME III-MONTE CARLO MULTILAYER SLAB GEOMETRY SHIELDING CODE C-18
(U), 161 P (U)

TREE: 411 ; 412
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08701
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copy: 1 id: 42800-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 08764
AUTH: KINNEY W.E.
CLSS: U
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6207
DESC: Radiation Transport neutron
DESC: TABULAR THEORY
REPN: ORNL 3287

SUJO: 9-650-000
TITL: MONTE CARLO CALCULATION OF SCATTERED NEUTRON FLUXES AT AN AIR-GROUND
INTERFACEDUE TO POINT ISOTROPIC SOURCES ON THE INTERFACE (U), 34 P
(U)

TREE: 970

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copy: 1 id: 42867-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08965

ADNO: 228281

AUTH: GASKE M.C. ; SPORE R.R. JR.

CLSS: U

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 5907

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: Nuclear Weapon Effects flight systems airplanes L5

EFFT: FALLOUT

REPN: AFSWC TN 59 5 ; SWC TN 59 5

SUJO: 3-111-000 ; 3-312-100

TITL: AIRCRAFT CONTAMINATION FROM RESIDUAL STRATOSPHERIC NUCLEAR WEAPON
DEBRIS (U), 33 P (U)

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08965

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copy: 1 id: 43029-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08973

ADNO: 232439

AUTH: SCHLEMM C.L. ; ANTHONY A.E. JR. ; BURSON Z.G.

CLSS: U

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 5901

DESC: Cross Sections gamma

DESC: Radiation Transport gamma

DESC: EXPERIMENTAL

REPN: AFSWC TN 59 6 ; SWC TN 59 6

SUJO: 9-620-000 ; 9-830-000

TITL: SCATTERED GAMMA RADIATION MEASUREMENTS FROM A CO 60 CONTAMINATED
FIELD, TECHNICAL NOTE (U), 117 P (U)

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08973

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copy: 1 id: 43036-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 08975
ADNO: 235320
AUTH: SCHLEMM C.L. ; ANTHONY A.E. JR.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 5906
DESC: Radiation Transport gamma
DESC: EXPERIMENTAL
DESC: Cross Sections gamma
REPN: AFSWC TN 59 18 ; SWC TN 59 18
SUJO: 9-620-000 ; 9-830-000
TITL: SCATTERED GAMMA RADIATION MEASUREMENTS FROM A LANTHANUM-140
CONTAMINATED FIELD(U), 57 P (U)

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08975
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copy: 1 id: 43038-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 08976
ADNO: 235304
AUTH: BLAYLOCK J.A. ; OMODA E. ; HIPPELI E.M.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6001
DESC: test instruments nuclear radiation neutron
DESC: SULFUR ; EXPERIMENTAL
REPN: AFSWC TN 59 36
SUJO: 4-342-000
TITL: SULFUR AS A SENSITIVE TOTAL NEUTRON DOSIMETER, TECHNICAL NOTE (U),
26 P (U)
TREE: 652

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08976
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copy: 1 id: 43039-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09128
CLSS: U
CONN: W 7405 ENG 48
CORP: TEXAS A AND M COLLEGE (COLLEGE STATION-TX) ; LAWRENCE RADIATION
LABORATORY (LIVERMORE-CA)

DATE: 6207
DESC: Nuclear Warfare Postattack Recovery resources water L1
REPN: UCRL 13048
SUJO: 3-448-200
TITL: RESEARCH ON RADIOACTIVE CONTAMINATION OF GROUND-WATER AQUIFERS,
STUDIES OF THEMIGRATION OF RADIOISOTOPES IN HOMOGENEOUS VERTICAL
COLUMNS, INTERIM REPORT (U), 50 P (U)

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09128
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copy: 1 id: 43182-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09149
AUTH: SMITH A.E.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6104
DESC: test instruments nuclear radiation gamma
REPN: AFSWC TN 61 5 ; SWC TN 61 5
SUJO: 4-341-000
TITL: TEST RESULTS, NUCLEAR RADIATION MEASURING AND RECORDING SET, A/E 33
D-1 (XV-1)(U), 13 P (U)

TREE: 651
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09149
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copy: 1 id: 43203-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09154
AUTH: SWIFT L.M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6101
DESC: Nuclear Energy Peaceful Applications excavation L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations
REPN: UCRL 13029
SUJO: 2-625-000 ; 3-481-000
TITL: STUDY OF SOME CRATERING CRITERIA FOR PROJECT CHARIOT (U), 39 P (U)

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09154
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copy: 1 id: 43208-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09155
AUTH: GRINE D.R.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6105
DESC: EXPERIMENTAL
DESC: Soil Rock Properties Equation of State Conductivity L1 EOS GRANITE
SALT

REPN: UCRL 13004
SUJO: 6-300-000
TITL: EQUATIONS OF STATE OF GRANITE AND SALT (U), 21 P (U)

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09155

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copy: 1 id: 43209-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09183
AUTH: MCLAUGHLIN A.G. ; SOLTIS F.S. ; WALKER B.R.
CLSS: U
CORP: ZIMNEY CORPORATION (MONROVIA-CA) ; LAWRENCE RADIATION LABORATORY
(LIVERMORE-CA)

DATE: 6209
DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: SUMMARY

REPN: UCRL 13054 ; TR 62 0165 2

SUJO: 4-345-000

TITL: FEASIBILITY STUDY OF ROCKET AND LAUNCHING SYSTEMS FOR PARTICULATE
SAMPLING OF CLOUDS (U), 51 P (U)

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09183

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copy: 1 id: 43234-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09198
AUTH: LANGHAM W.H. ; BELL P. ; GODFREY L. STEARNS H.
CLSS: U
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6003

DESC: BIBLIOGRAPHY

DESC: Nuclear Weapon Effects on animals ionizing radiation

REPN: LAMS 2343

SUJO: 3-312-000

TITL: LITERATURE SEARCH ON THE RELATIVE BIOLOGICAL EFFECTIVENESS (RBE) OF
IONIZING RADIATIONS (U), 251 P (U)

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09198
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copy: 1 id: 43248-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09201
AUTH: LANGHAM W.H.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6208
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
REPN: LADC 5310
SUJO: 3-312-220
TITL: RADIATION EXPOSURE TO PEOPLE FROM NUCLEAR WEAPON TESTS THROUGH 1961
(U), 20 P (U)

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09201
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copy: 1 id: 43251-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09222
ABS: Reclamation data from Operation Plumbbob are used to illustrate a method of treating and analyzing such data obtained in field-test experiments. The method utilizes available radiation-scattering computations to estimate the contribution OF radiation sources outside reclaimed areas to the radiation field inside the areas. These contributions are then subtracted to determine a more accurate value of the true effectiveness of the reclamation procedure or procedures.
ADNO: 219720
AUTH: MILLER C.F.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5904
DESC: Experimental
DESC: Nuclear Warfare recovery decontamination
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Nuclear Weapon Environment fallout intensity contours patterns
SHOT: Coulomb C
REPN: USNRDL TR 321
SUJO: 2-225-100 ; 3-312-000 ; 3-448-900
TITL: ANALYSIS OF RADIOLOGICAL DECONTAMINATION DATA OBTAINED FROM FIELD TESTS (U), 79 P (U)

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09222
.endblock
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copy: 1 id: 43258-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09236
AUTH: KNOX J.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6102
DESC: Nuclear Energy Peaceful Applications resource production water L1
REPN: UCRL 6326
SUJO: 3-483-300
TITL: NUCLEAR EXPLOSIVES POTENTIAL APPLICATIONS TO WATER RESOURCES
DEVELOPMENT (U), 18 P (U)

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09236
.endblock

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copy: 1 id: 43269-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09241
AUTH: HIGGINS G.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6108
DESC: Nuclear Energy Peaceful Applications resource production water L1
REPN: UCRL 6588
SUJO: 3-483-300
TITL: WATER CONSERVATION WITH NUCLEAR EXPLOSIVES (U), 9 P (U)

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09241
.endblock

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copy: 1 id: 43274-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09253
AUTH: GRUSH S.G. ; WENSRICH C.J.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6108
DESC: Solid Mechanics

DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: BIBLIOGRAPHY
DESC: Plasma Physics MHD fusion
REPN: UCRL 6473
SUJO: 9-200-000 ; 9-500-000 ; 9-710-000
TITL: ANNOTATED BIBLIOGRAPHY OF THEORIES OF THE EQUATION OF STATE OF
IONIZED GASES AND STRONG ELECTROLYTE SOLUTIONS (U), 69 P (U)

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09253
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copy: 1 id: 43286-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09266
AUTH: YOUNG D.D. JR.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6206
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
REPN: UCRL 6889
SHOT: MINNOW ; COWBOY
TSHO: UG-CONTAINED
SUJO: 2-627-000
TITL: FRACTURE SYSTEMS INDUCED IN A DECOUPLED SHOT CAVITY (U), 78 P (U)

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09266
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copy: 1 id: 43295-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09270
CLSS: U
CONN: W 7405 ENG 48
CORP: TEXAS AGRICULTURAL AND MECHANICAL COLLEGE (COLLEGE STATION-TX) ;
LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6106
DESC: Nuclear Weapon Environment fallout transfer
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ecological
REPN: UCRL 13010
SUJO: 2-224-300 ; 3-341-000
TITL: MIGRATION OF STRONTIUM THROUGH QUARTZ SAND (U), 50 P (U)

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09270
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copy: 1 id: 43299-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09383
ADNO: 373550
AUTH: HIPPELI E.M. ; SUMMERS D.L.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 5908
DESC: Radiation Transport neutron
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
REPN: AFSWC TN 59 25 ; SWC TN 59 25
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 9-650-000
TEMP: 77793
TITL: RESULTS OF MONTE CARLO NEUTRON PROGRAM FOR A BURST HEIGHT OF 250,000
FEET (U),39 P (SRD)
TREE: 920

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09383
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copy: 1 id: 43406-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09575
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6110
DESC: Civil Defense shelters L1
DESC: Civil Defense economic considerations cost analysis L1
REPN: UCRL 6654
SUJO: 3-474-000 ; 3-478-000
TITL: STUDY OF DESIGN AND COST DATA FOR FAMILY AND SMALL-GROUP FALLOUT
SHELTERS(U), 37 P (U)

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09575
.endblock

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copy: 1 id: 43579-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09660
AUTH: FREILING E.C.

CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6106
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Environment fallout fractionation
DESC: Nuclear Weapon Environment Fallout isotope concentrations
SUJO: 2-223-100 ; 2-223-410 ; 2-223-500
SYMJ: SCIENCE, VOL. 133 (U), 1991 1998 P (U)
TITL: RADIONUCLIDE FRACTIONATION IN BOMB DEBRIS (U), 7 P (U)

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09660

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copy: 1 id: 43637-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10924
ADNO: 705335
AUTH: TAFEL P.W.
CLSS: U
CONN: NBY 37641
CORP: STAMFORD ENGINEERING LABORATORY (STAMFORD-CT)
DATE: 6200
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings
L1 BLAST VALUES BLAST
DESC: nuclear test detection bomb alarm display systems L1 THERMAL
DETECTOR
DESC: Nuclear Weapon Effects structures hard launch sites materials L1
BLAST PROTECTION
REPN: NAVDOCKS P 148
SUJO: 3-116-200 ; 3-236-000 ; 4-920-000
TITL: INSTALLATION, OPERATION AND MAINTENANCE MANUAL FOR BLAST VALVES,
THERMAL RADIATION SENSOR AND THERMAL RADIATION TEST EMITTER (U), 92
P, (U)

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10924

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copy: 1 id: 44762-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11127
ADNO: 341165
AUTH: DAY R.P. ; ALVARES N.J. ; LAUGHRIDGE F.I.
CLSS: SRD 1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5901
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear weapon test yield L1 THERMAL YIELD
REPN: USNRDL TR 309
SHOT: SMOKY ; FRANKLIN ; PRAIRIE ; DOPPLER ; SHASTA ; STOKES ; OWENS ;
KEPLER ; JOHN ; DIABLO ; HOOD ; PRISCILLA ; WILSON ; FRANKLIN ;
BOLTZMANN
TSHO: LOW ALT
SUJO: 1-210-000 ; 1-240-000 ; 4-835-000
TEMP: 73529
TITL: AIRBORNE THERMAL RADIATION MEASUREMENTS AT OPERATION PLUMBBOB (U),
74 P, (SRD)

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11127

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copy: 1 id: 44922-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11942
ADNO: 512052L
AUTH: MATHER R.L.
CLSS: SRD 1
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)
DATE: 6009
DESC: Cross Sections neutron L1
DESC: test instruments nuclear radiation neutron L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 SUBSURFACE MEASUREMENTS
REPN: USNRDL TR 465
SHOT: OWENS ; LAPLACE ; WILSON
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-120-000 ; 4-342-000 ; 9-820-000
TEMP: A8118
TITL: NEUTRON ENERGY EFFECTS AND INDUCED ACTIVATION (PLUMBBOB
OBSERVATIONS) (U), 45 P., (SRD)
TREE: 920

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11942

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copy: 1 id: 45609-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12123
ADNO: 514324
AUTH: BURRELL M.O. ; DOUGLASSS C.C. ; RITCHIE W.B. ; WHITON J.C.
CLSS: SRD
CCDE: ZZ (GAMMA TRANSPORT)

CONN: DA 01 009 509 RRD 752
CORP: LOCKHEED AIRCRAFT CORP / GEORGIA DIV
DATE: 6105
DESC: Radiation Transport gamma L1
DESC: CLOSE IN OBSERVATION ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 WILSON HOOD
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1 WILSON HOOD
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
WITHIN TANK
REPN: LAC NR 121
SHOT: WILSON ; HOOD
TSHO: LOW ALT
SUJO: 1-110-000 ; 1-710-000 ; 3-312-100 ; 9-620-000
TEMP: 79089
TITL: NUCLEAR RADIATION DOSES IN RADIOLOGICALLY SHIELDED VEHICLES (U), 239
P., (SRD)

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12123
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copy: 1 id: 45727-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 12752
CLSS: U
CCDE: TECH OPS ; DUSTY III ; PUGH-GALIANO ; ARMY SYSTEM ; SIGNAL CORPS
SYSTEM ; RADFO ; CIVIL DEFENSE FO
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.
DATE: 6209
DESC: SUMMARY CODE
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: Nuclear Weapon Phenomenology cloud Motion L1
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 1 (U),
139 P., (U)

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copy: 1 id: 46301-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12753
CLSS: C 3
CCDE: AFIC FO MODEL ; SANDIA FO ; DROPSY ; FORD INST.
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.
DATE: 6209

DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: SUMMARY CODE
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000
TEMP: A0149
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 2 (U),
64 P., (C)

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12753

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copy: 1 id: 46302-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12754
CLSS: U
CCDE: RAND SIMPLIFIED ; LRL FO ; USWB FO ; USNRDL D ; MILLER-ANDERSON
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.
DATE: 6209
DESC: SUMMARY CODE
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 3 (U),
40 P., (U)

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copy: 1 id: 46303-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13312
ADNO: 386543
CLSS: U
CCDE: PRESS
CONN: AF 33 (616) 8158
CORP: AIR FORCE SYSTEMS COMMAND, AERONAUTICAL SYSTEMS DIV.
(WRIGHT-PATTERSON AFB, OHIO)
DATE: 6111
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
TRANSFORMERS
DESC: EMP TREE SIMULATION ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
GAM-77 M-H96 B-58 CONTROL SYSTEM
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS DIODES
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
BAND PASS AMPLIFIER NETWORK AMPLIFIER
REPN: ASD TDR 62 232
SUJO: 3-211-000 ; 3-213-000 ; 3-221-000 ; 3-222-000 ; 3-225-000 ;
3-229-000
SYST: X-15 ; B-58
TEMP: A0790
TITL: STUDY OF SOME RADIATION EFFECTS PROBLEMS WITH RESPECT TO FLIGHT
CONTROL INSTRUMENTATION (U), CA. 50 P., (U)
TREE: 398 ; 342

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copy: 1 id: 46795-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13500
AUTH: MCNEILLY J.H. ; KINCH J.W. ; RIGOTTI D.L.
CLSS: SRD 1
CORP: ARMY, CHEMICAL CORPS RESEARCH AND DEVELOPMENT COMMAND (ARMY CHEMICAL
CENTER, MD.)
DATE: 6007
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
BIOLOGICAL NEUTRON DOSE
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
REPN: D68 10827 ; 12716 ; CRDLR 3008
SHOT: YUMA ; KICKAPOO ; OSAGE ; BLACKFOOT ; ERIE ; FRANKLIN ; WILSON ;
PRISCILLA ; OWENS ; SMOKY ; FIG ; HAMILTON ; HUMBOLDT
TSHO: SURFACE ; LOW-ALT
SUJO: 1-110-000 ; 3-312-100
TEMP: A1313
TITL: MULTIPLE COLLISION THEORY NEUTRON DOSE VERSUS SINGLE COLLISION
THEORY NEUTRON DOSE (U), 15 P., (SRD)

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copy: 1 id: 46993-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13505
AUTH: MAERKER R.E. ; KELLER F.L. ; PENNY S.K. ; ETHRIDGE N.H. ; ZOBEL W. ;
MUCKENTHALER F.J.
CLSS: SRD 1
CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 6012
DESC: Cross Sections neutron L1 LEAD IRON POLYETHYLENE INSIDE AND BEHIND
ARMOR PLATES
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
INSIDE ARMORED TANKS
DESC: Cross Sections gamma L1
REPN: D69 01315 ; 16243 ; ORNL 3034
SHOT: MORA ; LEA ; SOCORRO
TSHO: SURFACE
SUJO: 3-312-100 ; 9-820-000 ; 9-830-000
TEMP: A6097
TITL: SHIELDING OF TANKS FROM RADIATION DUE TO DETONATION OF NUCLEAR
DEVICES (U), 115 P., (SRD)
TREE: 411 ; 412

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copy: 1 id: 46998-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13510
AUTH: FINK W.L. ; GORDON J.W. ; WHEELER G.A.
CLSS: SRD 1
CONN: NAS8 1609
CORP: GENERAL DYNAMICS, NUCLEAR AEROSPACE RESEARCH FACILITY (FORT WORTH,
TEX.)
DATE: 6206
REPN: D69 01326 ; 17678 ; FZK 146
TEMP: A1329
TITL: INVESTIGATION OF RADIATION EFFECTS PROBLEMS IN NUCLEAR HEAT
EXCHANGER ROCKETS; ANNUAL SUMMARY REPORT (U), 91 P., (SRD)

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copy: 1 id: 47006-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13514
AUTH: HINKLE N.E. ; WOODS J.W. ; ZUKAS J.C.
CLSS: SRD 1
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 6112
REPN: D69 01329 ; 17057 ; ORNL 3226
TEMP: A1332
TITL: RADIATION EFFECTS ON STRUCTURAL METALS (U), 65 P., (SRD)

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copy: 1 id: 47009-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13515
CLSS: SRD 1
CORP: WESTINGHOUSE ELECTRIC CORP., ASTRONUCLEAR LAB. (PITTSBURGH, PA.)
DATE: 6106
REPN: D69 01330 ; 16586 ; AFFTC TR 61 45 (5)
TEMP: A1333
TITL: NUCLEAR ROCKET STUDY, VOL. 5-RADIATION EFFECTS MATERIALS (U), 150
P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 13527
ADNO: 335237
CLSS: U
CONN: AF 33 (616) 7513
CORP: IBM CORP. (OWEGO, NY)
DATE: 6102
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (REACTOR) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
TREE
DESC: Nuclear Weapon Effects missile systems tactical L1 ELECTRONICS
REPN: D69 01382 ; 24285 ; IBM CD 3 260 4449
SUJO: 3-112-300 ; 3-211-000 ; 3-212-000 ; 3-221-000
TEMP: A1346
TITL: RADIATION-RESISTANT COMPUTER FEASIBILITY STUDY; FINAL REPORT FOR
PHASES I AND II (U), CA. 400 P., (C)
TREE: 341

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copy: 1 id: 47022-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13528
ADNO: 335239
CLSS: C
CONN: AF 33 (657) 7475
CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)
DATE: 6205
DESC: Nuclear Weapon Effects materials plastics resins L5
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 VACUUM TUBES CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: TREE NEUTRONS GAMMA RAYS SIMULATION ; THEORY EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Effects flight systems airplanes L1 ELECTRONICS
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
DESC: Nuclear Weapon Effects materials composites L5
EFFT: TREE
REPN: D69 01383 ; 24294 ; IBM CD 3 260 4712
SUJO: 3-111-000 ; 3-211-000 ; 3-212-000 ; 3-221-000 ; 3-222-000 ;
3-225-000 ; 3-229-000 ; 3-244-000 ; 3-249-000
TEMP: A1347
TITL: NUCLEAR RADIATION-RESISTANT COMPUTER TECHNIQUES, STATUS REPORT FOR
PHASE 4 (U), CA. 350 P., (S)
TREE: 341

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copy: 1 id: 47023-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13529
ADNO: 335238
CLSS: C 4
CONN: AF 33 (616) 7513
CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)
DATE: 6111
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: test instruments hardened instruments L1 COMPUTER
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
FLIGHT CONTROL PROPULSION SYSTEM CONTROL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TUNNEL DIODES GA AS TUNNEL DIODES
TEMPERATURE TRANSISTORS DIODES
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: SIMULATION (NUCLEAR REACTOR) TREE ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS
INDUCTORS TUBES TRANSFORMERS MULTI APERTURE RELUCTANCE SWITCH GO TO

SHIFT REGISTER BIASED CORE LOGIC INVERTER CLOCK GENERATOR SQUARE
WAVE GENERATOR PULSE TRANSFORMER COINCIDENT CURRENT MEMORY INHIBIT
DRIVER CONTROL LOOPS DIGITAL TO ANALOG CONVERTER MAGNETIC DRUM UNIT
LOGIC DEVICE

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

REPN: D69 01384 ; 24295 ; IBM CD 3 260 4631

SUJO: 3-211-000 ; 3-212-000 ; 3-221-000 ; 3-222-000 ; 3-229-000 ;
3-231-000 ; 3-243-000 ; 4-360-000

TEMP: A1348

TITL: RADIATION-RESISTANT COMPUTER FEASIBILITY STUDY, FINAL REPORT FOR
PHASE 3 (U), CA. 400 P., (C)

TREE: 300 ; 341

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13530

ADNO: 341665

AUTH: BUCHTA J.C.

CLSS: SRD 1

CORP: GENERAL ELECTRIC, ELECTRONICS LAB. (SYRACUSE, NM.)

DATE: 6008

DESC: Nuclear Weapon Environment Initial Gamma L1

DESC: SURVEY

DESC: Nuclear Weapon Environment Prompt Neutrons L1

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

REPN: DF 60 ELS 85

SUJO: 1-100-000 ; 1-700-000 ; 3-212-000

TEMP: A1349

TITL: WEAPON RADIATION EFFECTS AND DIGITAL COMPUTERS (U), 28 P., (SRD)

TREE: 341

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13563

ADNO: 345607

CLSS: SRD 1

CONN: AF 33 (616) 8341

CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)

DATE: 6206

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

SENSE AMPLIFIER

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DIGITAL COMPUTER CIRCUITS R-C CIRCUITS DIFFERENTIATOR CIRCUITS
LINEAR CIRCUITS COMMON COLLECTOR CONFIGURATIONS SWITCHING CIRCUITS
VOLTAGE REGULATOR

DESC: SIMULATION (SANDIA PULSED REACTOR FACILITY TREE ; THEORY
EXPERIMENTAL

REPN: D69 01659 ; 31012 ; IBM CD 3 260 4769 A

SUJO: 3-212-000 ; 3-213-000

TEMP: A1384

TITL: RADIATION EFFECTS STUDY OF DIGITAL COMPUTER CIRCUITS AND COMPONENTS,
VOL. 2 (U), 83 P., (SRD)

TREE: 341

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copy: 1 id: 47057-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13751

ADNO: 385539

AUTH: MAGEE R.M. ; BROWN G.M. ; ROSEN S.I. ; TAULBEE C.D.

CLSS: SRD 1

CORP: AIR FORCE SYSTEMS COMMAND (WRIGHT-PATTERSON AFB, OHIO)

DATE: 6208

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5

DESC: SUMMARY

REPN: ASD TDR 62 242 VOL. 2

SUJO: 4-241-000

SYST: PLUTO ; ROVER ; SLAM

TEMP: A1802

TITL: DESIGN TECHNIQUES FOR FLIGHT CONTROL SYSTEMS IN NUCLEAR RADIATION
ENVIRONMENTS, VOL. 2 (U), CA. 25 P., (SRD)

TREE: 398 ; 420

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13751

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copy: 1 id: 47205-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13793

ADNO: 324925

AUTH: ABBOTT H.M.

CLSS: C

CONN: AF 04 (647) 564

CORP: LOCKHEED MISSILES AND SPACE CO. (SUNNYVALE, CA.)

DATE: 6107

DESC: Nuclear Weapon Effects ordnance propellants solid L1

DESC: Nuclear Weapon Effects ordnance explosives L1

DESC: X-RAYS GAMMA RAYS ELECTRONS NEUTRONS PROTONS ALPHA AND BETA
PARTICLES ; BIBLIOGRAPHY
REPN: SB 61 26
SUJO: 3-163-000 ; 3-164-000
TEMP: A0795
TITL: RADIATION EFFECTS ON PROPELLANTS AND EXPLOSIVES; AN ANNOTATED
BIBLIOGRAPHY (U), 43 P., (C)

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13793

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copy: 1 id: 47244-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13894
ADNO: 342563
AUTH: OESTMANN M.
CLSS: SRD 1
CONN: AF 33 (616) 6564 ; AF 33 (616) 5171
CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER
(COLUMBUS, OHIO)

DATE: 5906
DESC: Nuclear Weapon Effects ordnance propellants solid L1
DESC: Nuclear Weapon Effects ordnance explosives L1
DESC: NUCLEAR RADIATION ; BIBLIOGRAPHY SUMMARY
SUJO: 3-163-000 ; 3-164-000
TEMP: A0757
TITL: EFFECT OF NUCLEAR RADIATION ON EXPLOSIVES AND SOLID PROPELLANTS (U),
20 P., (SRD)

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13894

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copy: 1 id: 47314-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13899
ADNO: 244600
AUTH: ROOTS Y.K. ; PHILLIPS T.D.
CLSS: U
CORP: NAVAL PROPELLANT PLANT (INDIAN HEAD, MD.)
DATE: 6006
DESC: Nuclear Weapon Effects ordnance propellants solid L1 GAMMA ALL
(DOUBLE-BASE) CDT (HYBRID)

DESC: STEADY STATE IRRADIATION CO-60 ; EXPERIMENTAL
REPN: TM 179
SUJO: 3-164-000
TITL: EFFECT OF GAMMA RADIATION FROM COBALT 60 ON THE MECHANICAL
PROPERTIES OF SOLID PROPELLANTS ALL AND CDT (U), 8 P., (U)

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13899

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copy: 1 id: 47318-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13921

CLSS: U

CONN: N 178 7705

CORP: NAVAL WEAPONS LAB. (DAHLGREN, VA.)

DATE: 6105

DESC: THEORY EXPERIMENTAL

REPN: D72 02366 ; 18306 ; F A2424

TEMP: A1458

TITL: PROCEEDINGS OF HERO CONGRESS, 1961, ON HAZARDS OF ELECTROMAGNETIC
RADIATION TO ORDNANCE (U), CA. 200 P., (U)

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copy: 1 id: 47335-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13923

ADNO: 328767

AUTH: RITCHIE R.

CLSS: C 1

CORP: ROYAL AIRCRAFT ESTABLISHMENT

DATE: 6106

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GE TRANSISTORS

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 TRANSISTOR POWER INVERTOR

DESC: SIMULATION (NUCLEAR REACTOR LIGHT FLASH) TREE PERMANENT RADIATION
EFFECTS FLASH TEMPERATURE EFFECTS ; THEORY EXPERIMENTAL

LA: UK

REPN: ARM TN 661

SUJO: 3-219-000 ; 3-221-000

TEMP: A1460

TITL: DEVELOPMENT OF A TRANSISTOR POWER INVERTOR FOR ARMAMENT
APPLICATIONS, WITH SPECIAL REFERENCE TO RELIABILITY AND
SUSCEPTIBILITY TO NUCLEAR RADIATION (U), CA. 40 P., (C)

TREE: 310

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13923

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copy: 1 id: 47337-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13928
ADNO: 327221
CLSS: U
CONN: DA 23 072 ORD 1534
CORP: GENERAL DYNAMICS/FORT WORTH, NUCLEAR RESEARCH AND DEVELOPMENT LAB.
(FORT WORTH, TEX.)
DATE: 6112
DESC: Cross Sections neutron L1 COMBAT VEHICLE SHIELDING
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
INSIDE COMBAT VEHICLE
REPN: D72 02396 ; FZK 133 1
SUJO: 3-312-100 ; 9-820-000
TEMP: A1465
TITL: RADIOLOGICALLY PROTECTED POD STUDY, VOL. 1-DESIGN AND FABRICATION
(U), 125 P., (U)

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13928

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copy: 1 id: 47342-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14010
ADNO: 273824
AUTH: GARDNER R.E.
CLSS: U
CONN: NAS 7 100
CORP: NASA
DATE: 6112
DESC: STEADY STATE IRRADIATION (CO-60)/GAMMA ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants solid L1 PBAA DOUBLE
BASE POLYURETHANE
REPN: TR 32 234
SUJO: 3-164-000
TITL: EFFECTS OF IONIZING RADIATION ON SOLID ROCKET MOTOR COMPONENTS (U),
16 P., (U)

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14010

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copy: 1 id: 47418-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14079
CLSS: C 3
CONN: AF 33 (600) 38946
CORP: CONVAIR (FORT WORTH, TEX.)

DATE: 6007
REPN: D72 02372 ; 12660 ; NARF 60 28P
TEMP: A1531
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 FEBRUARY 1960 THROUGH 31
JULY 1960) (U), 247 P., (C)

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copy: 1 id: 47478-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14080
CLSS: U
CONN: AF 33 (600) 38946
CORP: CONVAIR (FORT WORTH, TEX.)
DATE: 6101
REPN: D72 02375 ; 14093 ; NARF 61 3P
TEMP: A1532
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 AUGUST 1960 THROUGH 31
JANUARY 1961) 194 P., (U)

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copy: 1 id: 47479-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14081
CLSS: U
CONN: AF 33 (600) 38946
CORP: GENERAL DYNAMICS (FORT WORTH, TEX.)
DATE: 6107
REPN: D72 02376 ; 15230 ; NARF 61 28P
TEMP: A1533
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 FEBRUARY 1961 THROUGH 31
JULY 1961) (U), 124 P., (U)

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14081

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copy: 1 id: 47480-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14083
CLSS: U
CONN: NOW 62 0666 C
CORP: QUANTATRON, INC. (SANTA MONICA, CA.)

DATE: 6209
REPN: D72 02392 ; 19234 ; QI 134
TEMP: A1535
TITL: HIGH INTENSITY RADIATION DEVICE (U), 48 P., (U)

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copy: 1 id: 47482-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14085
ADNO: 337191
AUTH: HANSEN H.H. ; WINTHER K.T. ; RASMUSSEN F.B. ; VESTERGAARD J.
CLSS: C 1
CORP: DANISH DEFENCE RESEARCH BOARD
DATE: 6212
REPN: D72 02399 ; 22794 ; D 04 MWP AF 62
TEMP: A1537
TITL: DEVELOPMENT OF A LOW COST EXPENDABLE PERSONNEL RADIATION DOSIMETER
(U), 9 P., (C)

TREE: 655
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14085

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copy: 1 id: 47484-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14086
ADNO: 336525
AUTH: HANSEN H.H. ; LARSEN C. ; WINTHER K.T.
CLSS: C 1
CORP: DANISH DEFENCE RESEARCH BOARD
DATE: 6212
REPN: D72 02400 ; 22795 ; D 03 MWP AF 61
TEMP: A1538
TITL: DEVELOPMENT AND EVALUATION OF A LOW COST GAMMA RADIATION ANALYSER
(U), CA. 15 P., (C)

TREE: 651
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14086

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copy: 1 id: 47485-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14087

ADNO: 335806
CLSS: C 1
CONN: DRB 900102
CORP: RCA VICTOR CO., LTD. (MONTREAL, CANADA)
DATE: 6212
LA: CANADA
REPN: D72 02402 ; 22803
TEMP: A1539
TITL: SILICON JUNCTION RADIATION DETECTOR (U), CA. 50 P., (C)
TREE: 651

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copy: 1 id: 47486-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14111
AUTH: FINK W.L. ; GORDON J.W. ; THOMPSON C.A.
CLSS: CRD 1
CONN: NAS 8 1609
CORP: GENERAL DYNAMICS, NUCLEAR AEROSPACE RESEARCH FACILITY (FORT WORTH,
TEX.)
DATE: 6110
REPN: D72 02361 ; 16244 ; FZK 137
TEMP: A1563
TITL: INVESTIGATION OF RADIATION EFFECTS PROBLEMS IN NUCLEAR HEAT
EXCHANGER ROCKETS, PHASE 1 SUMMARY REPORT (U), 83 P., (CRD)

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copy: 1 id: 47510-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14123
ADNO: 312368
AUTH: MARCINIAK W.J. ; PHILLIPS T.D.
CLSS: C 3
CORP: NAVAL PROPELLANT PLANT (INDIAN HEAD, MD.)
DATE: 5907
REPN: D72 02368 ; 10479 ; TMR 159
TEMP: A1576
TITL: EFFECT OF GAMMA RADIATION FROM COBALT 60 ON THE MECHANICAL
PROPERTIES OF AHH AND ARP DOUBLE-BASE SOLID PROPELLANTS (U), 13 P.,
(C)

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14123

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copy: 1 id: 47522-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14126
ADNO: 373708
AUTH: WALKER R.C. ; SCARBOROUGH J.R.
CLSS: U
CORP: CHANCE VOUGHT CORP., AERONAUTICS AND MISSILES DIV. (DALLAS, TEX.)
DATE: 6207
REPN: D72 02478 ; 33890
TEMP: A1579
TITL: NUCLEAR RADIATION EFFECTS TEST ON THERMAL AND SILVER-ZINC BATTERIES
(U), CA. 50 P., (U)

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14126
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copy: 1 id: 47525-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14206
CLSS: C 3
CORP: NAVY, DAVID TAYLOR MODEL BASIN (WASH., D.C.)
DATE: 6212
DESC: Nuclear Weapon Effects ship systems surface ships L5 STANDOFF
DISTANCE SHOCK
DESC: Nuclear Weapon Effects ship systems submarines L5 SHOCK
DESC: Nuclear Test Simulation Field Programs concepts capability
philosophy L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5 SHIPBOARD HAZARD
DESC: Nuclear Weapon Environment Water Shock special studies temperature
gradients L5 BOTTOM REFLECTION
DESC: Target Analysis system studies submarines L5
REPN: SML 740 21 ; DASA 70178
TSHO: UW
SUJO: 2-639-000 ; 3-121-000 ; 3-122-000 ; 3-312-210 ; 3-431-310 ;
4-810-000
TEMP: B2422
TITL: CLASSIFIED TITLE, 34 P., (C)

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14206
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copy: 1 id: 47609-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14448

ADNO: 269871
AUTH: PECKHAM H.L. JR.
CLSS: U
CORP: AIR FORCE INSTITUTE OF TECHNOLOGY (WRIGHT-PATTERSON AFB, OHIO)
DATE: 6108
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1
PHOTOGRAPHIC FILMS SIMULATION (COBALT-60)
DESC: PARTS ARE ILLEGIBLE ; EXPERIMENTAL
EFFT: GAMMA
SUJO: 3-246-000
TITL: EFFECTS OF GAMMA-RAY RADIATION ON SIX SELECTED
SATELLITE-RECONNAISSANCE FILMS (U), 60 P., (U)

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copy: 1 id: 47840-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14516
AUTH: BONHAM K.
CLSS: U
CONN: AT (45 1) 540
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 5912
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Nuclear Weapon Environment radiation decay beta decay L1
DESC: ENIWETOK A
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: UWFL 63
SUJO: 2-223-300 ; 2-223-430 ; 3-312-220 ; 3-332-220
TITL: FURTHER CONTRIBUTIONS ON GROSS BETA RADIOACTIVITY OF BIOLOGICAL AND
RELATED SAMPLES AT THE ENIWETOK PROVING GROUND, 1952-1958 (U), 41
P., (U)

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copy: 1 id: 47898-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14517
AUTH: PALUMBO R.F.
CLSS: U
CONN: AT (45 1) 540
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,

WASH.)

DATE: 5908
DESC: Nuclear Weapon Environment Fallout beta intensities L5 SEAWATER
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

L1

DESC: ENIWETOK A BOGOMBOGO I ; EXPERIMENTAL
REPN: UWFL 61 (DEL.)
SHOT: NECTAR
SUJO: 2-223-300 ; 3-332-220
TITL: GROSS BETA RADIOACTIVITY OF THE ALGAE AT ENIWETOK ATOLL, 1954-1956
(U), 32 P., (U)

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copy: 1 id: 47899-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14520
ADNO: 269385
AUTH: SUSSKIND C.
CLSS: U
CONN: AF 41 (657) 114
CORP: UNIVERSITY OF CALIFORNIA, ELECTRONICS RESEARCH LAB. (BERKELEY, CA.)
DATE: 6106
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals RF microwave L1 MICROWAVES
SUJO: 3-314-000
TITL: LONGEVITY STUDY OF THE EFFECTS OF 3-CM MICROWAVE RADIATION ON MICE
(U), CA. 30 P., (U)

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copy: 1 id: 47902-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14521
AUTH: LOWMAN F.G. ; PALUMBO R.F. ; SOUTH D.J. ; WEEKS D.R.
CLSS: U
CONN: AT (45 1) 540
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 5901
DESC: ENIWETOK A ; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: UWFL 57
SUJO: 2-223-100 ; 3-312-220

TITL: BIOLOGICAL AND GEOGRAPHICAL DISTRIBUTION OF W 185 IN THE VICINITY OF
THE ENIWETOK TEST SITE, APRIL SEPTEMBER 1958 (U), 37 P., (U)

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14521

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copy: 1 id: 47903-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14527

AUTH: PALUMBO R.F.

CLSS: U

CONN: AT (45 1) 1385

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY, (SEATTLE,
WASH.)

DATE: 6202

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

L1

DESC: BIKINI A ENIWETOK A ; SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

REPN: UWFL 79

SUJO: 3-312-220 ; 3-332-220

TITL: RADIOACTIVITY IN THE BIOTA AT ISLANDS OF THE CENTRAL PACIFIC 1954
1958 (U), 63 P., (U)

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copy: 1 id: 47909-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14528

AUTH: CHAKRAVARTI D. ; HELD E.E.

CLSS: U

CONN: AT (45 1) 540

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)

DATE: 6001

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal L1

DESC: RONGELAP A ; EXPERIMENTAL

REPN: UWFL 64

SUJO: 3-312-220

TITL: POTASSIUM AND CESIUM 137 IN BURGUS LATRO (COCONUT CRAB) MUSCLE
COLLECTED AT RONGELAP ATOLL (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14529
AUTH: CHAKRAVARTI D. ; EISLER R.
CLSS: U
CONN: AT (45 1) 540
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 5903
DESC: RONGELAP A ; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: UWFL 59
SUJO: 3-312-220
TITL: STRONTIUM-90 AND GROSS BETA ACTIVITY IN THE FAT AND NON-FAT
FRACTIONS OF COCONUT CRAB (BIRGUS LATRO) LIVER COLLECTED AT RONGELAP
ATOLL DURING MARCH 1958 (U), 10 P., (U)

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copy: 1 id: 47911-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14530
AUTH: PALUMBO R.F. ; LOWMAN F.G. ; WELANDER A.D. ; WEEKS D.R.
CLSS: U
CONN: AT (45 1) 540
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 5902
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1
DESC: ENIWETOK A ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: UWFL 58
SHOT: WAHOO
TSHO: UW
SUJO: 2-223-100 ; 3-312-200 ; 3-332-200
TITL: DISTRIBUTION OF RADIOACTIVITY IN SEA WATER AND MARINE ORGANISMS
FOLLOWING AN UNDERWATER NUCLEAR DETONATION AT THE ENIWETOK TEST SITE
IN 1958 (U), 47 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14966
AUTH: OLESEN H. ; BENEDICT R.
CLSS: SRD
CONN: 04 (694) 202
CORP: GENERAL ELECTRIC CO., REENTRY SYSTEMS DEPT. (PHILADELPHIA, PA.)
DATE: 6211
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects reentry systems RV electronics L1 A&F thermal
batteries silver zinc batteries timers baroswithes magnetic inertial
switches frangible circuits TIMM LRL station Sandia station ; test
operations residual radiation contamination L5
EFFT: TREE ; neutrons ; gamma ; IEMP
REPN: 62 SD 885
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 3-113-300 ; 4-856-000
SYST: MK 3 ; MK 6
TEMP: 29989
TITL: NUCLEAR EFFECTS FROM PULSED RADIATION TO ARMING AND FUZING AND
ELECTRONIC COMPONENTS (U), 142 P., (SRD)
TREE: 397

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14966

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copy: 1 id: 48252-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15021
AUTH: RAYMOND J.P. ; WILLIS J.
CLSS: U
CONN: DA 28 043 AMC 00423 (E)
CORP: NORTHROP CORP. VENTURA DIV. (NEWBURY PARK, CA.) ; UNIVERSITY OF
CALIF. (LOS ANGELES, CA.)
DATE: 6000
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
SUJO: 3-221-000 ; 3-222-000
TITL: GENERALIZED MODEL ANALYSIS OF IONIZING RADIATION EFFECTS IN
SEMICONDUCTOR DEVICES (U), 25 P., (U)
TREE: 250

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15021

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copy: 1 id: 48290-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 15072
AUTH: HOPKINS G.R. ; WEIMAN A.L.A. ; WILLIS D.E.
CLSS: U
CONN: DA 36 039 SC 89196
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6212
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE
DESC: SIMULATION (LINAC REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: GA 3616
SUJO: 3-231-000
TITL: TRANSIENT RADIATION EFFECTS ON COAXIAL CABLES (U), 43 P., (U)
TREE: 390

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copy: 1 id: 48334-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15075
AUTH: BOTH E. ; BRUEMMER H.P. ; SCHLOSSER W.
CLSS: U
CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)
DATE: 6209
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: EXPERIMENTAL
EFFT: TREE
REPN: AELRDL TR 2313
SUJO: 3-231-000
TITL: TRANSIENTS INDUCED IN ELECTRICAL CABLES BY NUCLEAR RADIATION PULSES
(U), 29 P., (U)
TREE: 390

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copy: 1 id: 48337-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15277
AUTH: PERKINS C.W.
CLSS: U
CONN: DA 36 039 SC 89112
CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GROUP (FULLERTON, CA.)
DATE: 6200
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
REPN: FR 63 17 36
SUJO: 3-229-000 ; 3-231-000
TITL: TRANSIENT RADIATION EFFECTS ON PASSIVE PARTS; REPORT NO. 1, FIRST
QUARTERLY PROGRESS REPORT, 1 JUNE 1962 TO 31 AUGUST 1962 (U), 25 P.,
(U)

TREE: 390 ; 370

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copy: 1 id: 48510-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15278

AUTH: PERKINS C.W.

CLSS: U

CONN: DA 36 039 SC 89112

CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GROUP (FULLERTON, CA.)

DATE: 6200

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS RESISTORS

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES

EFFT: TREE

REPN: FR 63 17 37

SUJO: 3-229-000 ; 3-231-000

TITL: TRANSIENT RADIATION EFFECTS ON PASSIVE PARTS; REPORT NO. 2, SECOND
QUARTERLY PROGRESS REPORT, 1 SEPTEMBER 1962 TO 30 NOVEMBER 1962 (U),
20 P., (U)

TREE: 390 ; 370

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copy: 1 id: 48511-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15477

AUTH: HONNOLD V.R. ; EMMERT R.R. ; PEFFLEY W.M.

CLSS: U

CONN: NONR 3653 (00)

CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)

DATE: 6212

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 GE CRYSTAL NA CE KCE KB CRYSTALS

EFFT: TREE

REPN: FR62 17 144
SUJO: 3-220-200
TITL: INVESTIGATION OF BASIC MECHANISMS OF TRANSIENT HIGH ENERGY RADIATION
EFFECTS IN INSULATORS AND SEMICONDUCTORS (U), 50 P., (U)

TREE: 200

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15477

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copy: 1 id: 48669-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15710

CLSS: U

CONN: AF 33 (600) 40462

CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)

DATE: 6110

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS DIODES

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 CATHODE FOLLOWER

DESC: SIMULATION (PULSED REACTOR LINAC) ; EXPERIMENTAL

DESC: Simulation Facilities Techniques TREE L1 LINAC

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TANTALUM CAPACITORS
CARBON COMPOSITION RESISTORS THYRATRONS

EFFT: TREE

REPN: IBM 61 521 13

SUJO: 3-219-000 ; 3-221-000 ; 3-229-000 ; 3-231-000 ; 4-241-000 ;
4-272-000

TITL: PULSED RADIATION EFFECTS ON ELECTRONIC COMPONENTS; FOURTH TRIANNUAL
REPORT (U), 178 P., (U)

TREE: 310 ; 370 ; 380

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15710

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copy: 1 id: 48858-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15736

AUTH: HUNTER E.T. ; WANNEMACHER H.E.

CLSS: U

CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)

DATE: 6210

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GE TRANSISTORS

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: AELRDL TR 2310
SUJO: 3-221-000
TITL: TRANSIENT AND STEADY-STATE NUCLEAR RADIATION EFFECTS ON GERMANIUM
PNP ALLOY TRANSISTORS (U), 15 P., (U) ALLOY TRANSISTORS (U), 15 P.,
(U)

TREE: 310

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copy: 1 id: 48883-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15738

AUTH: CALDWELL R.S.

CLSS: U

CONN: AF 33 (616) 7804

CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

REPN: D2 90040

SUJO: 3-221-000

TITL: SOME RECENT RESULTS CONCERNING TRANSIENT RADIATION EFFECTS IN
TRANSISTORS (U), 25 P., (U)

TREE: 310

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15747

CLSS: U

CONN: DA 36 039 SC 85395

CORP: IBM CORP. (OWEGO, NY)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 GLASS DIELECTRIC
CAPACITORS

EFFT: TREE

REPN: IBM 63 521 1

SUJO: 3-229-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON

ELECTRONIC PARTS AND MATERIALS; REPORT NO. 9 (U), 50 P., (U)

TREE: 370

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copy: 1 id: 48894-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15751

AUTH: MAROTTA C. ; GRUBER C.

CLSS: U

CCDE: EDIT

CONN: DA 49 186 ORD 1012

CORP: UNITED NUCLEAR CORP. (WHITE PLAINS, NY)

DATE: 6208

DESC: THEORY

DESC: Radiation Transport neutron L1

DESC: Radiation Transport gamma L1

REPN: UNC 5031

SUJO: 9-620-000 ; 9-650-000

TITL: DESCRIPTION OF AN IBM-7090 MONTE CARLO PROGRAM FOR THE SOLUTION OF
THE TIME DEPENDENT NEUTRON AND GAMMA TRANSPORT PROBLEMS IN AN
ATMOSPHERE WITH DENSITY DEPENDENT ON HEIGHT (U), 73 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15752

AUTH: KALOS M.H.

CLSS: U

CONN: DA 18 108 405 CML 1007

CORP: UNITED NUCLEAR CORP.

DATE: 6205

DESC: Radiation Transport neutron L1

DESC: Radiation Transport gamma L1

DESC: THEORY

REPN: NDL TR 36 ; UNC 5014

SUJO: 9-620-000 ; 9-650-000

TITL: METHODS IN MONTE CARLO SOLUTION OF THE RADIATION TRANSPORT EQUATION
(U), 44 P., (U)

TREE: 960 ; 970

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copy: 1 id: 48899-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15753
AUTH: COOPER M.J. ; PAYNE M.G.
CLSS: U
CORP: DIAMOND ORDNANCE FUZE LABS. (WASH., DC)
DATE: 6206
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
REPN: DOFL TR 975 SUP. 1
SUJO: 3-221-000
TITL: NUCLEAR RADIATION DAMAGE TO TRANSISTORS; VOL. 2, PERMANENT DAMAGE;
PT. 1, THEORETICAL ASPECTS (U), 35 P., (U)
TREE: 310

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copy: 1 id: 48900-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15974
ADNO: 440293
AUTH: WIKNER E.G. ; HORIYE H. ; HARRITY J.W. ; VAN LINT V.A.J.
CLSS: U
CONN: DA 49 186 3RD 822
CORP: GENERAL ATOMIC
DATE: 6204
DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 GE SI TE
EFFT: TREE
REPN: GA 3087
SUJO: 3-220-200
TITL: DISPLACEMENT RADIATION EFFECTS (U), 74 P., (U)
TREE: 200

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copy: 1 id: 49094-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15999
ADNO: 261278
AUTH: COSGROVE S.L. ; DUELDTGEN R.L.
CLSS: U

CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER
(COLUMBUS, OH.)

DATE: 6105

DESC: SUMMARY

DESC: Nuclear Weapon Effects materials fuels lubricants L1

EFFT: NEUTRON ; GAMMA

REPN: REIC 19

SUJO: 3-238-000

TITL: EFFECT OF NUCLEAR RADIATION ON LUBRICANTS AND HYDRAULIC FLUIDS (U),
75 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16026

ADNO: 525484L

AUTH: DAY R.P. ; HOPTON R.L. ; ALVARES N.J. ; ULBERG J.C. ; HAMMOND R.R.

CLSS: SFRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 5908

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1 AIRBORNE OBSERVATION

DESC: Nuclear Weapon Environment Thermal Output rate L5

REPN: NRDL TR 330

SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON
; LACROSSE ; MOHAWK ; INCA ; KICKAPOO

SUJO: 1-210-000 ; 1-240-000

SYST: B-47E ; B-52B ; B-66 ; B-57B ; F-84F ; F-101A

TEMP: A4106

TITL: MEASUREMENT OF THERMAL RADIATION INCIDENT ON USAF AIRCRAFT IN
FLIGHT, OPERATION REDWING (U), CA. 250 P., (SFRD)

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copy: 1 id: 49133-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16036

ADNO: 331524

CLSS: U

CONN: AF 04 (611) 8188

CORP: THIOKOL CHEMICAL CORP. (ELKTON, MD.)

DATE: 6209

DESC: Solar Phenomena L1 RADIATION ENVIRONMENT OF SPACE

DESC: Nuclear Weapon Effects ordnance propellants solid L1

EFFT: X-RAY

REPN: E139 62
SUJO: 3-164-000 ; 5-900-000
TITL: DEVELOPMENT OF SOLID ROCKET PROPELLANT SYSTEM CAPABLE OF
WITHSTANDING EXTENDED STORAGE IN SPACE ENVIRONMENT (U), 35 P., (U)

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16036
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copy: 1 id: 49139-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 16221
AUTH: DONALDSON L.R.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 5900
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L5
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L5
DESC: SUMMARY
EFFT: RADIONUCLIDES
REPN: PACE 21
SUJO: 2-223-100 ; 3-312-220 ; 3-332-220
TITL: RADIOBIOLOGICAL STUDIES AT THE ENIWETOK TEST SITE AND ADJACENT AREAS
OF THE WESTERN PACIFIC (U), 7 P., (U)

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16221
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copy: 1 id: 49277-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16296
AUTH: CHAKRAVARTI D. ; HELD E.E.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 6200
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
REPN: PACE 23 ; UFWL 77
SUJO: 3-312-220 ; 3-332-220
SYMJ: JOURNAL OF FOOD SCIENCE 1963 V.28 NO. 2 P. 221-228
TITL: CHEMICAL AND RADIOCHEMICAL COMPOSITION OF THE RONGELAPESE DIET (U),

8 P., (U)

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copy: 1 id: 49336-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16297

AUTH: DONALDSON L.R.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE, WASH.)

DATE: 6000

DESC: SUMMARY OF SURVEYS

REPN: PACE 24 ; UFWL 64

TITL: EVALUATION OF RADIOACTIVITY IN THE MARINE ENVIRONMENT OF THE PACIFIC PROVING GROUND (U), 11 P., (U)

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copy: 1 id: 49337-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16299

AUTH: HELD E.E.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY

DATE: 6000

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: EXPERIMENTAL SUMMARY

REPN: PACE 15

SUJO: 3-312-220

TITL: LAND CRABS AND FISSION PRODUCTS AT ENIWETOK ATOLL (U), 10 P., (U)

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copy: 1 id: 49339-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16301

AUTH: WALKER R.B. ; HELD E.E. ; GESSEL S.P.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON

DATE: 6100

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1 FIELD SURVEY REDUCTION BY FERTILIZING
DESC: EXPERIMENTAL SUMMARY
REPN: PACE 39
SUJO: 3-332-220
TITL: RADIOCESIUM IN PLANTS GROWN ON RONGELAP ATOLL SOILS (U), 5 P., (U)

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copy: 1 id: 49341-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16329
AUTH: PALUMBO R.F.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)

DATE: 6200

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on plants integrated effects L1 LONG-TERM
INVESTIGATION

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L5

DESC: Nuclear Weapon Environment radiation decay gamma decay L5 P 185

REPN: PACE 12

SHOT: NECTAR

TSHO: SURFACE

SUJO: 2-223-420 ; 3-332-200 ; 3-335-000

TITL: RECOVERY OF THE LAND PLANTS AT ENIWETOK ATOLL FOLLOWING A NUCLEAR
DETONATION (U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16330
AUTH: LOWMAN F.G.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)

DATE: 6000

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L5

DESC: EXPERIMENTAL SUMMARY

REPN: PACE 84

SUJO: 2-223-100 ; 3-312-220

TITL: MARINEBIOLOGICAL INVESTIGATIONS AT THE ENIWETOK TEST SITE (U), 33

P., (U)

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16330

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copy: 1 id: 49366-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16337

AUTH: SEYMOUR A.H.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION, DIVISION OF BIOLOGY AND MEDICINE (WASH.,
D.C.)

DATE: 5900

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

SUJO: 3-312-220

TITL: DISTRIBUTION OF RADIOISOTOPES AMONG MARINE ORGANISMS IN THE WESTERN
CENTRAL PACIFIC (U), 12 P., (U)

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copy: 1 id: 49380-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16342

AUTH: PALUMBO R.F.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON

DATE: 6100

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

REPN: PACE 22

SUJO: 3-312-220

TITL: DIFFERENCE IN UPTAKE OF RADIOISOTOPES BY MARINE AND TERRESTRIAL
ORGANISMS (U), 6 P., (U)

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16342

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copy: 1 id: 49385-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16345

AUTH: LOWMAN F.G. ; PALUMBO R.F.

CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 6200
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: EXPERIMENTAL SUMMARY
REPN: PACE 26
SUJO: 2-223-100
TITL: OCCURRENCE OF BISMUTH-207 AT ENIWETOK ATOLL (U), 4 P., (U)

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copy: 1 id: 49388-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16363
AUTH: VAN LINT V.A.J. ; NICHOLS D.K. ; WEIMAN A.L.A. ; WILLIS D.E. ;
HOPKINS G.R.

CLSS: U
CONN: DA 36 039 SC 89196
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6212
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 CU
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 MG O (-150 TO 700 DEGREES C) GE NITROGEN GAS
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
SIMULATED CABLES

EFFT: GAMMA
REPN: GA 3609
SUJO: 3-220-200 ; 3-231-000 ; 3-243-000
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC PARTS; REPORT NO. 2 (U),
70 P., (U)
TREE: 390 ; 200

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16363

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16365
AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.
CLSS: U
CONN: DA 36 039 AMC 00002 (E)
CORP: ADMIRAL CORP. (CHICAGO, IL.)
DATE: 6212
DESC: EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

SUJO: 4-170-000

TITL: EFFECTS OF NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES (U), CA.
50 P., (U)

TREE: 367

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copy: 1 id: 49400-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16518

ADNO: 306946

AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; MISBUCK E. ; VILTER

E.J.

CLSS: U

CONN: AF 33 (616) 5792

CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)

DATE: 5904

DESC: Description No Vulnerability PEP Materials L1

REPN: 0185 01 3

SUJO: 3-950-000

TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET
PROPELLANTS (U), 50 P., (U)

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copy: 1 id: 49453-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16520

ADNO: 309284

AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; VILTER E.J.

CLSS: U

CONN: AF 33 (616) 5792

CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)

DATE: 5906

DESC: Description No Vulnerability PEP Materials L1

REPN: 0185 01 4

SUJO: 3-950-000

TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET
PROPELLANTS (U), 40 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 16521
ADNO: 312787
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; VILTER E.J. ;
SALTONSTALL C.W.
CLSS: U
CONN: AF 33 (616) 5792
CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)
DATE: 5909
DESC: Description No Vulnerability PEP Materials L1
REPN: 0185 01 5
SUJO: 3-950-000
TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET
PROPELLANTS (U), 40 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16522
ADNO: 314121
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; SALTONSTALL C.W. ;
VILTER E.J.
CLSS: U
CONN: AF 33 (616) 5792
CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)
DATE: 5912
DESC: Description No Vulnerability PEP Materials L1
REPN: 0185 01 6
SUJO: 3-950-000
TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET
PROPELLANTS (U), 35 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 16675
ADNO: 292487
AUTH: LUCIC A.
CLSS: U
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 6111
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

MAGNETIC CORES MAGNETIC MATERIALS

DESC: EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects electronic pieceparts materials basic mechanisms L1 INSULATORS

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors vacuum tubes dielectrics relays switches L1 TA CAPACITORS VACUUM TUBES PHOTOTUBES GAS TUBE RESISTORS

DESC: Nuclear Weapon Effects missile systems strategic electronics L1 MINUTEMAN ELECTRONICS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-112-130 ; 3-220-200 ; 3-221-000 ; 3-225-000 ; 3-229-000

TITL: RADIATION EFFECTS ON COMPUTER CIRCUITRY (U), 50 P., (U)

TREE: 392 ; 341

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16675

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copy: 1 id: 49576-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16702

AUTH: JOHNSON E.R. ; HENLEY E.J. ; STAFFIN R.

CLSS: U

CCDE: ZZ(RADIATION BURST EFFECTS)

CONN: DA 36 039 SC 89148

CORP: STEVENS INSTITUTE OF TECHNOLOGY (HOBOKEN, N.J.)

DATE: 6200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices sensors detectors L1 MAGNETIC MATERIALS

DESC: Nuclear Weapon Effects materials metals alloys L1 AL 2024-T3

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects electrical mechanical cables wires L5

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors vacuum tubes dielectrics relays switches L1 ELECTRON TUBE

EFFT: TREE

SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-243-000

TITL: LITERATURE STUDY OF RADIATION EFFECTS ON ELECTRON DEVICES (U), CA. 100 P., (U)

TREE: 310 ; 343

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16702

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copy: 1 id: 49603-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16783
ADNO: 264653L
AUTH: DEGENHART H.J. ; SCHLOSSER W.
CLSS: U
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)
DATE: 6105
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Simulation Facilities Techniques TREE L1 GODIVA
DESC: EXPERIMENTAL
REPN: ASRDL TR 2200
SUJO: 3-229-000 ; 3-231-000 ; 4-272-000
TITL: PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC PARTS AND MATERIALS
(U), 36 P., (U)
TREE: 390 ; 642 ; 380 ; 370

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16783

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copy: 1 id: 49663-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16785
AUTH: SCHLOSSER W. ; LASCARO C.P. ; KEY J.
CLSS: U
CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB (FT. MONMOUTH, NJ)
DATE: 6209
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
EFFT: TREE
REPN: AELRDL TR 2306
SUJO: 3-231-000
TITL: PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC PARTS AND MATERIALS
(U), 45 P., (U)
TREE: 390 ; 380 ; 343

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16786
CLSS: U
CONN: AF 33 (616) 8341
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)
DATE: 6206
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

SMALL COILS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS FET-S DIODES ZENER
DIODES

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CERAMIC MICA PAPER TA
VITAMIN Q CAPACITORS THYRATRONS TRANSFORMERS

DESC: test instruments nuclear radiation dosimeters radiacs L1

DESC: SIMULATION (CO60 PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 62 521 16

SUJO: 3-221-000 ; 3-225-000 ; 3-229-000 ; 3-231-000 ; 4-346-000

TITL: RADIATION EFFECTS STUDY OF DIGITAL COMPUTER CIRCUITS AND COMPONENTS;
VOL. 1, (U), CA. 200 P., (U)

TREE: 390 ; 341 ; 310

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16786

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copy: 1 id: 49666-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16795

AUTH: TRIMMER P.A.

CLSS: U

CORP: ARMY, DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)

DATE: 6208

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 POWER CONVERTER

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: DOFL TR 1065

SUJO: 3-219-000 ; 3-221-000

TITL: RADIATION EFFECTS ON TRANSISTORIZED POWER CONVERTERS (U), 25 P., (U)

TREE: 389

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16795

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copy: 1 id: 49675-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16796

AUTH: BOUCHARD G.H.

CLSS: U

CORP: SANDIA CORP.

DATE: 6206

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1 X-RAY DOSE + SPECTRUM
DESC: Nuclear Weapon Effects materials carbon L1
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 GE
DESC: Nuclear Weapon Effects materials metals alloys L1 CU AL PB SN W CD
AS FILTERS ON FLASH X-RAY
EFFT: X-RAY
REPN: SCR 524
SUJO: 3-220-200 ; 3-243-000 ; 3-248-000 ; 4-341-000
TITL: MEASUREMENT OF BREMSSTRAHLUNG DOSE AND SPECTRUM FROM A 600KVP PULSED
X-RAY GENERATOR USING PHOTOGRAPHIC FILM (U), 20 P., (U)
TREE: 642

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16796
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copy: 1 id: 49676-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16797
AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.
CLSS: U
CONN: DA 36 039 SC 85322
CORP: ADMIRAL CORP. (CHICAGO, IL.)
DATE: 6206
DESC: SIMULATION (LINAC CYCLOTRON PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 QUARTZ CRYSTAL UNIT
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 QUARTZ CRYSTALS
EFFT: NEUTRON ; GAMMA ; BETA
SUJO: 3-220-200 ; 3-229-000
TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C
61-3LP/D-4206); THIRD QUARTERLY PROGRESS REPORT 23 FEBRUARY THROUGH
22 MAY 1962 (U), CA. 200 P., (U)

TREE: 367
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16797
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copy: 1 id: 49677-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16799
AUTH: VAN LINT V.A.J.
CLSS: U
CORP: GENERAL DYNAMICS CORP., GENERAL ATOMIC DIV. (SAN DIEGO, CA.)
DATE: 6204
DESC: SUMMARY SURVEY
DESC: Nuclear Weapon Effects electronic pieceparts L5

EFFT: TREE
REPN: CP 62 1078
SUJO: 3-220-000
TITL: MECHANISMS OF TRANSIENT RADIATION EFFECTS IN ELECTRONIC PARTS (U), 5
P., (U)

TREE: 200

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copy: 1 id: 49678-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16815

AUTH: STERN H.A. ; FREE J.J. ; LILLER P.R. ; TURNBULL J.C.

CLSS: U

CONN: DA 36 039 SC 89121

CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)

DATE: 6200

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 ELECTRON TUBES

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects materials ceramics optical L5 DEGASSING OF
CERAMIC MATERIALS

EFFT: TREE

SUJO: 3-229-000 ; 3-241-000

TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; FINAL
PROGRESS REPORT (U), 90 P., (U)

TREE: 305

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16815

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copy: 1 id: 49688-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16816

AUTH: CALME E.E. ; PATTERSON W.J.

CLSS: U

CONN: DA 36 039 SC 90735

CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)

DATE: 6200

DESC: Cross Sections gamma L1 O2 AL SI TI NI MO W

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 ELECTRON TUBE

DESC: THEORY SURVEY

SUJO: 3-229-000 ; 9-830-000

TITL: BASIC RADIATION EFFECTS MECHANISM STUDY ON ELECTRON TUBES; REPORT
NO. 1 (U), 50 P., (U)

TREE: 305

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16816
.endblock

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copy: 1 id: 49689-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 16817
AUTH: SAUR A.J. ; ZACK J.F. JR. ; ANDERMAN A.I.
CLSS: U
CONN: MIPR R 62 16 SC 00 93
CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)
DATE: 6112
DESC: THEORY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 ORGANIC INSULATORS
EFFT: TREE
REPN: AI 7506
SUJO: 4-170-000
TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONIC MATERIALS (U), 30 P., (U)
TREE: 385

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.endblock

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copy: 1 id: 49690-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16818
AUTH: VIDRINE J.L.
CLSS: U
CONN: DA 36 039 SC 87306
CORP: EG+G, INC. (BOSTON, MA.)
DATE: 6207
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1 GODIVA II DOSE RATE CURVES TRIGA + KEWB POWER CURVES
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
REPN: EGG B 2462
SUJO: 3-221-000 ; 4-241-000
TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA (U), 95 P., (U)
TREE: 310 ; 642

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copy: 1 id: 49691-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 16819
AUTH: HARRISON G.R. ; SCHEIWE J.P.
CLSS: U
CONN: DA 36 039 SC 89113
CORP: SPERRY MICROWAVE ELECTRONICS CO. (CLEARWATER, FL.)
DATE: 6208
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 MICROWAVE FERRITE DUPLEXERS
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 DUPLEXERS CABLES
DESC: SURVEY
EFFT: TREE
REPN: SJ 220 0041 1
SUJO: 3-132-220 ; 4-170-000
TITL: STUDY OF PULSED RADIATION EFFECTS ON MICROWAVE FERRITE DUPLEXERS;
FIRST QUARTERLY REPORT (U), CA. 50 P., (U)
TREE: 395

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16819
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copy: 1 id: 49692-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16820
CLSS: U
CONN: DA 36 039 SC 85395
CORP: INTERNATIONAL BUSINESS MACHINES CORP. (OWEGO, N.Y.)
DATE: 6200
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
FERRITE + TAPE WOUND CORES MAGNETIC TAPE
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: IBM 62 521 14
SUJO: 3-225-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 35 P., (U)
TREE: 343

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copy: 1 id: 49693-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16878
AUTH: BELL J.E. ; HELMS R.L. ; PIZAREK R.H. ; WALKER K.R.

CLSS: U
CONN: AF 29 (601) 4743
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6112
DESC: THEORY
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 MULTIVIBRATOR WEIN BRIDGE OSCILLATOR
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
EFFT: TREE
SUJO: 3-213-000 ; 3-219-000
TITL: THEORETICAL STUDY OF BURST-INDUCED TRANSIENT RADIATION EFFECTS IN
BASIC ELECTRONIC CIRCUITS (U), 41 P., (U)
TREE: 369
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16878
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copy: 1 id: 49733-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16880
AUTH: SAUR A.J. ; ANDERMAN A.I. ; ZACK J.F. JR.
CLSS: U
CONN: MIPR R 62 16 SC 00 93
CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)
DATE: 6200
DESC: EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
EFFT: TREE
REPN: AI 7640
SUJO: 4-170-000
TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONIC MATERIALS REPORT NO. 2,
SECOND QUARTERLY REPORT (1 MAY 1962 TO 31 JULY 1962) (U), 15 P., (U)
TREE: 310 ; 642
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copy: 1 id: 49735-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16881
AUTH: STANLEY J.M.
CLSS: U
CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)
DATE: 6211
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 QUARTZ CRYSTAL UNITS CR-18/U CR-52/U CR-56/U

CR-27/U CR-54/U CR-19/U

DESC: SIMULATION (PULSED REACTOR LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: AELRDL TR 2320
TSHO: UG-CONTAINED
SUJO: 3-132-220
TITL: EFFECTS OF PULSE NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (U), 25
P., (U)
TREE: 367

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copy: 1 id: 49736-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16882
AUTH: PERKINS C.W.
CLSS: U
CONN: DA 36 039 SC 90703
CORP: HUGHES AIRCRAFT CO., NUCLEONICS DIV. (FULLERTON, CA.)
DATE: 6200
DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
SUJO: 3-221-000
TITL: DETERMINATION OF TRANSISTOR FIGURE-OF-MERIT FOR RADIATION EFFECTS
(U), 40 P., (U)
TREE: 310

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copy: 1 id: 49737-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16883
AUTH: BURNS G.B. ; COLWELL J.E. ; COMPTON D.M.J. ; DENSON R. ; GUERENA H.
; KIRKBRIDE J. ; NICHOLS D.K. ; PEREUE J.H. ; VAN LINT V.A.J. ;
WIKNER E.G.

CLSS: U

CONN: DA 49 186 502 3RD 939

CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6205

DESC: Nuclear Weapon Effects materials metals alloys L1 CU AL TE

DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects materials plastics resins L1 POLYETHYLENE
FILM

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1 GE SI MG O (80 DEGREES K AND 300 DEGREES K)

EFFT: TREE
REPN: GACD 3178
SUJO: 3-220-200 ; 3-243-000 ; 3-244-000
TITL: TRANSIENT RADIATION EFFECTS, TECHNICAL SUMMARY REPORT, COVERING THE
PERIOD APRIL 15, 1962 THROUGH APRIL 14, 1962 (U), CA. 150 P., (U)

TREE: 200

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copy: 1 id: 49738-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16884

AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.

CLSS: U

CONN: DA 36 039 SC 85322

CORP: ADMIRAL CORP. (CHICAGO, IL.)

DATE: 6203

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 QUARTZ CRYSTAL UNITS CR-18/U CR(XM-17) CR-19/U
CR-52/U CR-54/U CR-47/U

DESC: SIMULATION (LINAC CYCLOTRON) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-132-220

TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C
61-ELP/D-4206) (U), CA. 200 P., (U)

TREE: 367

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16885

AUTH: OROURKE R.C. ; STEFFY W.A. ; WYMAN J. ; VACCA S.

CLSS: U

CONN: DA 36 039 SC 87306

CORP: EG+G, INC. (BOSTON, MA.)

DATE: 6203

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1 GODIVA II DOSE RATE

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

SUJO: 3-221-000 ; 4-241-000

TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA (U), 65 P., (U)

TREE: 310

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16885

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copy: 1 id: 49740-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16886

AUTH: STERN H.A. ; FREE J.J.

CLSS: U

CONN: DA 36 039 SC 89121

CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)

DATE: 6100

DESC: EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EFFT: TREE

SUJO: 4-170-000

TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; SECOND
QUARTERLY PROGRESS REPORT 1 OCTOBER 1961 TO 31 DECEMBER 1961 (U), 25
P., (U)

TREE: 305

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copy: 1 id: 49741-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16916

AUTH: PLANKIS E.P.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6100

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 VTM Z-5312 Z5428 Z5337 MAGNETRON A4J52A

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 VACUUM TUBE

DESC: SIMULATION (PULSED REACTOR ACCELERATOR) ; EXPERIMENTAL

SUJO: 3-132-220 ; 3-229-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 2, SECOND
QUARTERLY PROGRESS REPORT (U), CA. 50 P., (U)

TREE: 305

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copy: 1 id: 49760-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16917
AUTH: DONOVAN A. ; FUEYO A. ; SCHLUETER A.
CLSS: U
CONN: DA 36 039 SC 85322
CORP: ADMIRAL CORP. (CHICAGO, IL.)
DATE: 6109
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 Q CRYSTAL UNITS CR-18/U CR-(XM-17)/U CR-19/U
CR-52/U CR-54/U CR-50/U CR-47/U
DESC: SIMULATION LINAC ; EXPERIMENTAL
EFFT: NEUTRON
SUJO: 3-132-220
TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS; REPORT NO. 1,
INTERIM FINAL REPORT (U), CA. 200 P., (U)
TREE: 367

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copy: 1 id: 49761-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16920
CLSS: U
CONN: DA 36 039 SC 85395
CORP: IBM CORP. (OWEGO, N.Y.)
DATE: 6109
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 GLASS-DIELECTRIC CAPACITORS
EFFT: TREE
SUJO: 4-170-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS; REPORT NO. 5 (U), 15 P., (U)
TREE: 370

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copy: 1 id: 49763-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16921
CLSS: U
CONN: DA 36 039 SC 85395
CORP: IBM CORP. (OWEGO, N.Y.)
DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
FERRITE MEMORY CORES FERRITE + PERMALLOY SWITCH CORES TAPE WOUND
CORES

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 61 928 26

SUJO: 3-225-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE); REPORT NO. 4 (U), 45 P. (U)

TREE: 343

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copy: 1 id: 49764-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16922

AUTH: OROURKE R.C.

CLSS: U

CONN: DA 36 039 SC 87306

CORP: EG+G, INC. (BOSTON, MA.)

DATE: 6201

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5

DESC: THEORY

EFFT: TREE

REPN: EGG B 2347

SUJO: 3-221-000

TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA; REPORT NO. 2 (U),
10 P., (U)

TREE: 310

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copy: 1 id: 49765-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16923

AUTH: KEISTER G.L.

CLSS: U

CONN: AF 33 (616) 7804

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 FLIP-FLOP CIRCUITS CATHODE FOLLOWER

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS

DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE
REPN: D2 90044
SUJO: 3-213-000 ; 3-219-000
TITL: ANALOG COMPUTER PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS
(U), 35 P., (U)

TREE: 369

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16923

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copy: 1 id: 49766-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16925

AUTH: GERSTEIN B. ; SCHLEUTER A. ; FUEYO A.

CLSS: U

CONN: DA 36 039 SC 85322

CORP: ADMIRAL CORP. (CHICAGO, IL.)

DATE: 6112

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1 QUARTZ CRYSTALS

DESC: SIMULATION (LINAC CYCLOTRON) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-132-220

TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C
61-ELP/D-4206) (U), CA. 50 P., (U)

TREE: 367

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copy: 1 id: 49768-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16926

CLSS: U

CONN: DA 36 039 SC 85395

CORP: IBM CORP. (OWEGO, N.Y.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 GLASS CAPACITORS

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 62 521 3

SUJO: 3-229-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS; REPORT NO. 6 (U), 40 P., (U)

TREE: 370

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copy: 1 id: 49769-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16927
CLSS: U
CONN: AF 33(616) 7804
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6201
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS POWER DIODES
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 MULTIVIBRATOR CATHODE FOLLOWER
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
DESC: Simulation Facilities Techniques TREE L1 KUKLA GODIVA
DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS TANTALUM
VITAMIN Q SILVER MICA CAPACITORS
EFFT: TREE
REPN: D2 9878
SUJO: 3-213-000 ; 3-219-000 ; 3-221-000 ; 3-229-000 ; 4-272-000
TITL: PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS IN ELECTRONIC
CIRCUITS (U), 90 P., (U)
TREE: 310 ; 370

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copy: 1 id: 49770-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16928
AUTH: PLANKIS E.P.
CLSS: U
CONN: DA 36 039 SC 87253
CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)
DATE: 6200
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 VOLTAGE TUNABLE MAGNETRON
EFFT: TREE
SUJO: 3-132-220 ; 3-231-000
TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 3 (U), 85 P., (U)
TREE: 395

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copy: 1 id: 49771-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16929

AUTH: KOSENKRANIUS L.

CLSS: U

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6200

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS

DESC: COMPUTER SIMULATION ; THEORY

EFFT: TREE

REPN: AIEE CP 62 1082

SUJO: 3-221-000 ; 3-229-000

TITL: ANALOG COMPUTER TECHNIQUES FOR THE PREDICTION OF TRANSIENT NUCLEAR
RADIATION EFFECTS ON TRANSISTOR CIRCUITS (U), 20 P., (U)

TREE: 310 ; 370

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copy: 1 id: 49772-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16930

AUTH: TRIMMER P.A.

CLSS: U

CORP: DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 POWER CONVERTER

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

REPN: AIEE CP 62 1192

SUJO: 3-219-000 ; 3-221-000

TITL: RADIATION EFFECTS ON TRANSISTORIZED POWER CONVERTERS (U), 12 P., (U)

TREE: 389

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copy: 1 id: 49773-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16931
AUTH: CALDWELL R.S. ; GAGE D.S. ; HANSON G.H.
CLSS: U
CORP: BOEING CO. (SEATTLE, WASH.) ; NORTHWESTERN UNIV. (EVANSTON, IL.) ;
UNIV. OF WASH. (SEATTLE, WASH.)
DATE: 6200
DESC: SIMULATION (FLASH X-RAY PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: AIEE 62 1081
SUJO: 3-221-000
TITL: TRANSIENT BEHAVIOR OF TRANSISTORS DUE TO IONIZING RADIATION PULSES
(U), 20 P., (U)
TREE: 310

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copy: 1 id: 49774-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16962
AUTH: TURNBULL J.C. ; STERN H.A. ; LILLER P.R.
CLSS: U
CONN: DA 36 039 SC 89121
CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)
DATE: 6100
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 ELECTRON TUBES
DESC: GAS EVOLUTION ; SURVEY
EFFT: TREE
SUJO: 3-229-000 ; 3-244-000
TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; FIRST
QUARTERLY PROGRESS REPORT 1 JULY 1961 TO 30 SEPTEMBER 1961 (U), 50
P., (U)
TREE: 305

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copy: 1 id: 49801-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16964
AUTH: VAN LINT V.A.J.
CLSS: U

CONN: DA 49 186 ORD 939
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6201
DESC: Nuclear Weapon Effects electrical mechanical cables wires L5
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L5
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
DESC: SUMMARY
EFFT: TREE
REPN: GA 2886
SUJO: 3-221-000 ; 3-229-000 ; 3-231-000
TITL: MECHANISMS OF TRANSIENT RADIATION EFFECTS, STATE OF THE ART, (U), 12
P., (U)

TREE: 200

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copy: 1 id: 49803-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16965

AUTH: PUTTCAMP R.

CLSS: U

CORP: ARMY, DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)

DATE: 6111

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

REPN: DOFL TR 975

SUJO: 3-221-000

TITL: NUCLEAR RADIATION DAMAGE TO TRANSISTORS; VOL. 1, PERMANENT DAMAGE,
PART 1, DATA (U), 160 P., (U)

TREE: 310

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copy: 1 id: 49804-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16966

AUTH: PLANKIS E.P. ; MAGNUSON R.A.

CLSS: U

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

SUJO: 4-170-000
TITL: RADIATION EFFECTS ON MICROWAVE DEVICES, REPORT NO. 5, FIFTH
QUARTERLY PROGRESS REPORT 1 JULY 1962 THROUGH 30 SEPTEMBER 1962 (U),
20 P., (U)

TREE: 642

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copy: 1 id: 49805-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16967

AUTH: PLANKIS E.P. ; MAGNUSON R.A.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: SURVEY

EFFT: TREE

SUJO: 4-170-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES, REPORT NO. 6, SIXTH
QUARTERLY PROGRESS REPORT 1 OCTOBER 1962 THROUGH 31 DECEMBER 1962
(U), 40 P., (U)

TREE: 305

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copy: 1 id: 49806-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16968

AUTH: WINSLOW J.W. ; HART R.R.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6209

DESC: SIMULATION (VAN DE GRAAFF)

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 BI 2 TE 3

REPN: NRDL TR 581

SUJO: 3-220-200

TITL: RADIATION EFFECTS IN THERMOELECTRICS 1. TECHNIQUES FOR DETECTION OF
TRANSIENT EFFECTS AND THEIR APPLICATION TO COMMERCIAL GRADE BISMUTH
TELLURIDE (U), 80 P., (U)

TREE: 200

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16968

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16999

AUTH: SCHMIDT F.J.

CLSS: U

CONN: AF 33 (616) 8096

CORP: GENERAL ELECTRIC (OWENSBORO, KY.)

DATE: 6212

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 DIODES TRIODES PEUTODES

DESC: SIMULATION (REACTOR) 580 DEGREES C ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TIMM CIRCUITS

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS RESISTORS

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1

EFFT: TREE ; GROUND-SHOCK

REPN: ASD TDR 62 1039

SUJO: 3-220-200 ; 3-221-000 ; 3-222-000 ; 3-229-000

TITL: RESEARCH AND INVESTIGATION ON RADIATION RESISTANT HIGH TEMPERATURE
THERMIONIC CIRCUITRY (U), 82 P., (U)

TREE: 310 ; 420

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17001

AUTH: PLANKIS E.P.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L5 CABLES

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 Z-5312 Z-5337 Z-5428 VOLTAGE TUNABLE MAGNETRONS

EFFT: TREE

SUJO: 3-132-220 ; 3-231-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 4, FOURTH
QUARTERLY PROGRESS REPORT (U), 62 P., (U)

TREE: 395

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17001

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17009
AUTH: HARRISON G.R. ; SCHEIWE J.P.
CLSS: U
CONN: DA 36 039 SC 89113
CORP: SPERRY MICROWAVE ELECTRONICS CO. (CLEARWATER, FL.)
DATE: 6211
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: SJ 222 0041 2
SUJO: 3-132-220 ; 3-231-000
TITL: STUDY OF PULSED RADIATION EFFECTS ON MICROWAVE FERRITE DUPLEXERS;
REPORT NO. 2, SECOND QUARTERLY REPORT, 1 AUGUST 1962 TO 31 OCTOBER
1962 (U), CA. 100 P., (U)
TREE: 390 ; 395

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17009

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copy: 1 id: 49838-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17022
ADNO: 255920
AUTH: ANTHONY A.E. JR.
CLSS: U
CCDE: RAND
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, N.M.)
DATE: 6101
DESC: Radiation Transport neutron L1
DESC: TABULAR
REPN: AFSWC TN 61 2
SUJO: 9-650-000
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF
50,000 FEET (U), 35 P., (U)
TREE: 970

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17022

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17023
ADNO: 299192L
AUTH: GEORGE M.S. ; MALCOLM L. ; CHAMPION G.P.
CLSS: U
CCDE: SPARC ; ZZ (TRANSIENT CIRCUIT CHARACTERISTICS)
CONN: DA 36 039 SC 90738
CORP: NORTHROP CORP., VENTURA DIV. (VAN NUYS, CA)
DATE: 6200
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: Nuclear Warfare Theater C3I L1
EFFT: NEUTRON ; TREE
REPN: NVO 2640 2
SUJO: 3-161-100 ; 3-219-000 ; 3-412-200
TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION
ENVIRONMENT, REPORT NO. 2, (U), 75 P., (U)

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17023

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copy: 1 id: 49850-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17099-043
AUTH: RAINEY S.C.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6200
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
TSHO: WATER-SURFACE ; UW
SUJO: 2-225-100
SYMJ: WEAPONS AND WEAPONS EFFECTS; THE SIXTH NAVY SCIENCE SYMPOSIUM; VOL.
3
TITL: FALLOUT FROM NUCLEAR EXPLOSIONS ON THE WATER SURFACES (U), 31 P.,
(SRD)

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17099-043

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17386
AUTH: HANKINS D.E. ; KING W.C.
CLSS: U
CONN: AT (10 1) 205
CORP: ATOMIC ENERGY COMMISSION

DATE: 6012
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
EFFT: BETA
REPN: IDO 16632
SUJO: 3-312-220
TITL: METHOD OF CALCULATING LUNG DOSE RECEIVED FROM A CONFINED CLOUD OF
RADIOACTIVE GAS (U), 27 P., (U)

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17386
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400
AUTH: WATSON B.B.
CLSS: U
CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)
DATE: 6004
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
REPN: ORO SP 127
SUJO: 3-312-200
TITL: SYMPOSIUM ON THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59 (U), 80 P., (U)

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17400
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copy: 1 id: 50152-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400-03
AUTH: SACHER G.A.
CLSS: U
CORP: ARGONNE NATIONAL LAB. (LEMONT, IL.)
DATE: 6004
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: SUMMARY
SUJO: 3-312-200
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59
TITL: PROBLEMS IN THE EXTRAPOLATION OF LONG-TERM EFFECTS FROM ANIMALS TO
MAN (U), 8 P., (U)

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17400-03
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copy: 1 id: 50153-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400-11
AUTH: BERLIN N.I.
CLSS: U
CORP: NATIONAL INSTITUTES OF HEALTH, NATIONAL CANCER INSTITUTE (BETHESDA,
MD.)
DATE: 6004
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
SUJO: 3-312-200
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59
TITL: EFFECT OF CHRONIC IONIZING RADIATION ON THE LIFE SPAN OF MAN (U), 6
P., (U)

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copy: 1 id: 50154-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400-19
AUTH: BOONE I.U.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 6004
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
SUJO: 3-312-210
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59
TITL: INCIDENCE OF TUMORS IN ANIMALS EXPOSED TO WHOLE-BODY RADIATION (U),
19 P., (U)

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17400-19

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copy: 1 id: 50155-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400-39
AUTH: HEMPELMANN L.H.
CLSS: U
CORP: UNIVERSITY OF ROCHESTER, STRONG MEMORIAL HOSPITAL (ROCHESTER, N.Y.)
DATE: 6004
DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
SUJO: 3-312-210
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59
TITL: MALIGNANT DISEASE IN POPULATION GROUPS EXPOSED TO IONIZING RADIATION
(U), 11 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17400-51
AUTH: BROWN D.V.L.
CLSS: U
CORP: UNIVERSITY OF ILLINOIS (CHICAGO, IL.)
DATE: 6004
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1

DESC: EXPERIMENTAL
SUJO: 3-312-210
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59

TITL: RADIATION CATARACTS IN ANIMALS (U), 8 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17400-59
AUTH: COGAN D.G.
CLSS: U
CORP: HARVARD UNIVERSITY MEDICAL SCHOOL
DATE: 6004
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1

SUJO: 3-312-210
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59

TITL: RADIATION CATARACTS IN MAN (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17400-73
AUTH: GRAHN D.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6004
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: EXPERIMENTAL
SUJO: 3-312-210
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER
59
TITL: GENETIC ALTERATIONS IN ANIMALS AND MAN (U), 7 P., (U)

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17400-73

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copy: 1 id: 50159-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17401
ADNO: 232225
AUTH: KSANDA C.F. ; LAUMETS E.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5909
DESC: Radiation Transport gamma L5
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: NRDL TR 361
SUJO: 2-223-200 ; 9-620-000
TITL: COMPUTATION OF EARLY-TIME FISSION PRODUCT DOSE-RATE SPECTRA AND
GAMMA-RAY AIR ATTENUATION (U), 34 P., (U)

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17401

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17588
AUTH: NEALL W.G.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6005
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5

DESC: Nuclear Weapon Test safety L1
DESC: SIMULATION (HE) ; EXPERIMENTAL
REPN: NRDL TR 423
SHOT: HYDRA 1
TSHO: UW
SUJO: 3-312-210 ; 4-856-000 ; 4-870-200
TITL: RADIOLOGICAL SAFETY REPORT, HYDRA I AT DAVID TAYLOR MODEL BASIN,
WASHINGTON, D.C. (U), 32 P., (U)

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17588
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copy: 1 id: 50371-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17650

ABS: Aircraft flying in the stratosphere encounter some buildup of radioactive contamination on their surfaces because of the reservoir of nuclear debris placed in the stratosphere by the detonation of atomic and thermonuclear weapons. Guidelines, based on the recommendations of the national committee on radiation protection, are presented for use in evaluating the radiation exposure to personnel resulting from this buildup. Experimental studies show that the hazard to persons who work on aircraft contaminated with mixed fission products can be adequately defined by a simple beta-gamma survey of the immediate area where work is being performed. The contribution to the total radiation dose from inhalation of resuspended debris or ingestion from hand contamination is unimportant, ranging from factors of 100 or more below that contributed by the external dose.

ABS: The levels of radiation now present on aircraft are such that it is highly improbable that anyone would ever receive exposure in excess of permissible limits; control of personnel for radiological health reasons and decontamination of aircraft are, therefore, unnecessary.

AUTH: DICK J.L. ; GASKE M.C. ; KILEY L.A.JR.
CLSS: U
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, N.M.)
DATE: 5904
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
EFFT: GAMMA ; BETA
REPN: AFSWC TN 59 29
SUJO: 3-312-200
TITL: EVALUATION OF PERSONNEL EXPOSURE FROM STRATOSPHERIC FISSION FRAGMENT
CONTAMINATION ON AIRCRAFT (U), 30 P., (U)

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17650
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copy: 1 id: 50432-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17670
ADNO: 373283
AUTH: PETERSON R.H. ; WILLIAMS J.A.
CLSS: SRD
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 6102
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Effects land transport armored vehicles L1
DESC: Cross Sections gamma L1
REPN: BRL MR 1319
SUJO: 3-151-000 ; 3-312-100 ; 9-830-000
TEMP: A5425
TITL: DEPENDENCE OF TANK CREW SURVIVAL PROBABILITY UNDER NUCLEAR ATTACK ON
VEHICLE DOSE ATTENUATION (U), 65 P., (SRD)
TREE: 411

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17676
AUTH: JOHNSON C.F. ; UZZELL B.R.
CLSS: SRD
CONN: DA 23 072 ORD 1534
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)
DATE: 6203
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L5 P
46
DESC: Cross Sections neutron L1 STEEL LEAD POLYETHYLENE SLABS
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Effects land transport armored vehicles L1
REPN: FZK 138
SUJO: 1-130-000 ; 3-151-000 ; 3-312-100 ; 9-820-000
TEMP: A5437
TITL: SUMMARY OF RADIOLOGICALLY PROTECTED POD CONSTRUCTION AND TEST
PREPARATION--FINAL REPORT (U), 70 P., (SRD)
TREE: 412

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created: 12/27/1991 type: REPORT permanent

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INUM: 17678
CLSS: SRD
CONN: DA 23 072 ORD 1407
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)
DATE: 6112
DESC: Cross Sections neutron L1
DESC: Cross Sections gamma L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
EARTH ACTIVATION
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects land transport armored vehicles L1
REPN: FZK 134 1
SHOT: OWENS
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 2-223-200 ; 3-151-000 ;
9-820-000 ; 9-830-000
TEMP: A5440
TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION-FINAL REPORT; VOL.
1, NUCLEAR DESIGN STUDIES (U), 274 P., (SRD)
TREE: 910 ; 920
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17678
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copy: 1 id: 50501-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17682
AUTH: WELLS M.B.
CLSS: SRD
CONN: DA 23 072 ORD 1407
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)
DATE: 6112
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
WITHIN SECONDS AFTER DETONATION
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: THEORY EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
REPN: FZK 134 2
SHOT: PRISCILLA ; HOOD ; WASP ; OWENS
TSHO: SURFACE ; LOW-ALT

SOCE: [REDACTED]
SUJO: 1-110-000 ; 1-120-000 ; 1-130-000 ; 1-710-000 ; 1-720-000 ;
1-730-000 ; 2-223-200

TEMP: A5450

TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION-FINAL REPORT; VOL.
2, TRANSPORT OF INITIAL RADIATION FROM NUCLEAR WEAPONS (U), 158 P.,
(SRD)

TREE: 910 ; 920

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17684

CLSS: C

CORP: GENERAL SERVICES ADMINISTRATION, FEDERAL SUPPLY SERVICE (WASH.,
D.C.)

DATE: 6105

DESC: Description No Vulnerability Command Control Communications C3 L1

DESC: TABULAR

REPN: FED.STD. 222

SUJO: 3-910-000

TEMP: 59219

TITL: RADIATION STANDARD FOR COMMUNICATIONS AND OTHER
INFORMATION-PROCESSING EQUIPMENT (U), 185 P., (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17692

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6108

DESC: SIMULATION (HE) ; SUMMARY

DESC: Nuclear Weapon Test safety L1

DESC: Environmental Impact Assessments EIS Supporting Data L5

REPN: NRDL FO 31A

SHOT: HYDRA 2A

TSHO: UW

SUJO: 4-856-000 ; 4-870-200

TITL: RADIOLOGICAL SAFETY; ANNEX E (U), CA. 50 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17752
AUTH: SULIT R.A. ; COLE R. ; NEWCOMBE C.L.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5904
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L5
DESC: Cross Sections gamma L5
DESC: Nuclear Weapon Effects ship systems surface ships L1
DESC: Nuclear Weapon Effects on animals thermal burns heating L5
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5
DESC: TABULAR
EFFT: TREE ; THERMAL ; AIR-BLAST
REPN: NRDL TR 316
TSHO: SURFACE ; UW ; LOW-ALT
SUJO: 1-210-000 ; 2-611-000 ; 3-122-000 ; 3-312-100 ; 3-313-100 ;
9-830-000
TEMP: A5357
TITL: INTERIM PROCEDURES FOR UMPIRING SINGLE-WEAPON NUCLEAR ATTACK ON
NAVAL SHIPS (U), 97 P., (C)
TREE: 399

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17752

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copy: 1 id: 50541-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17753
AUTH: SHNIDER R.W.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5901
DESC: THEORY
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Effects structures underground tunnels L1 ADM
REPN: NRDL TR 292
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-230-000 ; 3-261-000
TEMP: A5358
TITL: RADIOLOGICAL EFFECTS OF NUCLEAR TUNNEL DEMOLITIONS (U), 66 P., (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17754
AUTH: SCHULTZE D.P. ; JENKS A.L. ; DEMUNCK J.S. ; STILWELL E.P.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5912
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5
DESC: Nuclear Weapon Effects ship systems surface ships L5 CREW FALLOUT
HAZARD
DESC: TABULAR
DESC: Nuclear Weapon Environment fallout arrival time L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
REPN: NRDL TR 387
TSHO: SURFACE ; UW
SUJO: 2-225-100 ; 2-225-300 ; 3-122-000 ; 3-312-210
TEMP: A5361
TITL: RADIOLOGICAL ASSESSMENT SYSTEM FOR DAMAGE CONTROL CENTRAL OF THE USS
ENTERPRISE CVA (N) 65 (U), 105 P., (C)

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copy: 1 id: 50543-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 17755
ADNO: 518830
AUTH: SCHELL W.R. ; CAPUTI R.W.
CLSS: CFRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6001
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: EXPERIMENTAL
REPN: NRDL TR 395
SHOT: UMBRELLA ; WAHOO
TSHO: UW
SUJO: 2-223-100 ; 2-223-410
TEMP: A5362
TITL: DETERMINATION OF C138 INDUCED IN SEAWATER BY UNDERWATER NUCLEAR
DETONATION (U), 18 P., (CFRD)

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17755
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copy: 1 id: 50544-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17756
AUTH: LAURINO R.K. ; SCHULTZE D.P. ; VANDENBERGHE G.
CLSS: CRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6003
DESC: Nuclear Weapon Environment fallout arrival time L1
DESC: Nuclear Weapon Effects ship systems surface ships L5 CREW FALLOUT
HAZARD
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: TABULAR
REPN: NRDL TR 407
TSHO: SURFACE
SUJO: 2-223-420 ; 2-225-100 ; 2-225-300 ; 3-122-000 ; 3-312-210
TEMP: A5363
TITL: DECISION PROCEDURES FOR SHIPBOARD RADIOLOGICAL DEFENSE (U), 117 P.,
(CRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 17758
AUTH: RIEL G.K.
CLSS: CFRD
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD.)
DATE: 6207
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
POOL CONTOURS
DESC: DUNC ; EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
REPN: NOLTR 62 151
SHOT: SWORDFISH
TSHO: UW
SUJO: 2-223-410 ; 2-223-420 ; 2-225-100
TEMP: A5371
TITL: OPERATION SWORDFISH PROJECT DUNC (U), 50 P., (CFRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 17764
AUTH: MILLER C.F.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6109
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: THEORY EXPERIMENTAL
REPN: NRDL 466
SHOT: ZUNI ; BRAVO ; TEWA ; FLATHEAD ; NAVAJO ; SUGAR ; UNCLE ; DIABLO ;
SHASTA
TSHO: SURFACE ; WATER-SURFACE ; UG-VENTED
SUJO: 2-223-100 ; 2-225-200
TEMP: A5390
TITL: THEORY OF DECONTAMINATION OF FALLOUT FROM NUCLEAR DETONATIONS PART
II. METHODS FOR ESTIMATING THE COMPOSITION OF CONTAMINATED SYSTEMS
(U), 84 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 17767
ADNO: 360453
AUTH: FERGUSON J.M.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6106
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: TABULAR
REPN: NRDL TR 600
SUJO: 1-710-000
TEMP: A5395
TITL: EARLY-TIME GAMMA RADIATION FROM NUCLEAR WEAPONS (U), 24 P., (SRD)
TREE: 910

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17768
AUTH: LANE W.B.

CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6210
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: EXPERIMENTAL
REPN: NRDL TR 590
SHOT: DANNY BOY
TSHO: SURFACE
SUJO: 2-223-100
TEMP: A5394
TITL: SOME RADIOCHEMICAL AND PHYSICAL PROPERTIES OF NUCLEAR DEBRIS FROM
DANNY BOY (U), 22 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17770
ADNO: 525482L
AUTH: FERGUSON J.M.
CLSS: SFRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6102
DESC: TABULAR
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1 N
ACTIVATION
REPN: NRDL TR 494
TSHO: SURFACE
SUJO: 2-223-200
TEMP: A5405
TITL: NEUTRON-INDUCED RADIOACTIVITY IN BEACHES (U), 18 P., (SFRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17771
AUTH: TERESI J.D. ; SULIT R.A. ; LU W.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6112
DESC: Nuclear weapon safety radiological L1
DESC: THEORY
REPN: NRDL TR 538
SUJO: 4-838-100
TEMP: A5407

TITL: CLASSIFIED TITLE (U) 62 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17772

AUTH: SPIELBERG D.

CLSS: SRD

CONN: DA 30 069 505 ORD 2460

CORP: NUCLEAR DEVELOPMENT CORPORATION OF AMERICA (WHITE PLAINS, N.Y.)

DATE: 6006

DESC: Cross Sections neutron L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW

HAZARD

DESC: Cross Sections gamma L1

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: NDA 2106 9

SUJO: 3-151-000 ; 3-312-100 ; 9-820-000 ; 9-830-000

TEMP: A5408

TITL: STUDY OF STEEL-POLYETHYLENE SHIELDS FOR PROTECTION AGAINST NUCLEAR RADIATIONS (U), 28 P., (SRD)

TREE: 411 ; 412

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created: 12/27/1991 type: REPORT permanent

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INUM: 17777

ABS: Plutonium, being an alpha emitter, is hazardous only if taken into the body. The two main methods of ingress into the body are ingestion and inhalation. Fortunately, the oxides of plutonium formed in a one-point detonation are nearly insoluble in the fluids of the gastrointestinal tract (0.003percent). Once in the stomach they are rapidly excreted as an inert material with virtually no body uptake. Inhalation, on the other hand, presents a considerable threat. Any particle which has reached the lower respiratory tract apparently has an excellent chance of clinging to alveolar surfaces and remaining to do local radiation damage, with a biological half life of about 1 year. Some of the finer particles so captured pass into the blood stream over a period of several days.

ABS: This material remains as a blood burden until its slight solubility allows eventual assimilation to the extent of 70 percent of the material carried. This 70 percent is distributed principally in bone, where it remains indefinitely. One cannot outlive its

influence, because the biological half life of plutonium is about 120 years. The increased handling of nuclear weapons by the armed forces has increased the probability of accidental or premature detonations in populated areas, where the problems associated with the inhalation of plutonium may face an unschooled and unsuspecting public. It is essential that provisions be made to handle any such emergency.

ADNO: 506296
AUTH: SMITH R.J.
CLSS: SRD
CORP: ARMY CHEMICAL WARFARE LAB. (ARMY CHEMICAL CENTER, MD.)
DATE: 6005
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment alpha activity L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear weapon safety radiological L1
REPN: CWLR 2385
SHOT: HAMILTON ; QUINCE ; NTS 57
TSHO: SURFACE ; LOW-ALT
SUJO: 2-223-600 ; 2-225-100 ; 4-838-100
TEMP: A5420 ; 71708 (MF)
TITL: ALPHA Contamination Studies at Operations Plumbbob and Hardtack (U),
33 P., (SRD)
TNFF: 8859

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created: 12/27/1991 type: REPORT permanent

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INUM: 17851
ADNO: AD 305768
AUTH: MOHBACH P.
CLSS: C
CORP: FRANKLIN INSTITUTE LABS.
DATE: 5901
DESC: Description No Vulnerability PEP Materials L1
DESC: SUMMARY
REPN: NAVORD R 6928
SUJO: 3-950-000
TEMP: A5298
TITL: HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE (U), 22 P., (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17861
AUTH: SOULE R.R. ; PERKINS W.W. ; SCHUERT E.A.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6208
DESC: HYDRA SIMULATION (RADIOACTIVE TRACER) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
POOL MEASUREMENTS
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Phenomenology plumes spray domes L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L1
TSHO: UW
SUJO: 2-223-100 ; 2-224-130 ; 2-225-100 ; 4-821-000
TEMP: A5314
TITL: INVESTIGATION OF THE RADIOLOGICAL EFFECTS FROM UNDERWATER NUCLEAR
EXPLOSIONS USING 10,000-POUND HIGH-EXPLOSIVE CHARGES AS MODELS (U),
266 P., (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17873
AUTH: WHEELER D.
CLSS: S
CONN: DA 23 072 ORD 1441
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)
DATE: 6203
DESC: Cross Sections gamma L1
DESC: Cross Sections neutron L1 STEEL POLYETHYLENE
DESC: EXPERIMENTAL TABULAR
REPN: FZK 139
SUJO: 9-820-000 ; 9-830-000
TEMP: A5410
TITL: EXPERIMENTAL SHIELDING STUDIES FOR A RADIATION-RESISTANT COMBAT
VEHICLE (U), 70 P., (S)

TREE: 411 ; 412

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17900
AUTH: KNAPP H.A.
CLSS: U

CORP: ATOMIC ENERGY COMMISSION (WASH., D.C.)
DATE: 6207
DESC: Nuclear Weapon Environment radiation decay gamma decay L1 10 YEAR
DECAY ENIWETOK SAND
DESC: THEORY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Radiation Transport gamma L1
REPN: TID 16457
SHOT: MIKE
TSHO: SURFACE
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 9-620-000
TITL: GAMMA RAY EXPOSURE DOSE TO NON-URBAN POPULATIONS FROM THE SURFACE
DEPOSITION OF NUCLEAR TEST FALLOUT (U), 50 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17905
AUTH: FULCHER E.M. ; MCDOWELL E.C. ; SHAW T.R.
CLSS: U
CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)
DATE: 6106
DESC: Nuclear Weapon Effects land transport armored vehicles L5 CREW
HAZARD
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: THEORY
EFFT: GAMMA
REPN: ORO TP 36
SUJO: 3-151-000 ; 3-312-100
TITL: DIGITAL COMPUTER PROGRAM FOR NUCLEAR RADIATION ASSESSMENT (U), 24
P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17965
AUTH: KINCH J.W. ; RIGOTTI D.L.
CLSS: CFRD
CORP: ARMY CHEMICAL WARFARE LABS. (ARMY CHEMICAL CENTER, MD.)
DATE: 5907
DESC: Cross Sections neutron L1 B-10 PU 239 U 235 P 32 OTHERS
DESC: test instruments nuclear radiation neutron L1

DESC: TABULAR
REPN: CWLR 2282
SUJO: 4-342-000 ; 9-820-000
TEMP: A5232
TITL: ACTIVATION-TYPE NEUTRON DETECTION SYSTEM AND ITS CALIBRATION (U), 56
P., (CFRD)

TREE: 652

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copy: 1 id: 50726-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17980

AUTH: MAHONEY J.J. ; MALONEY J.C. ; KILMINSTER D.T.

CLSS: C

CORP: ARMY CHEMICAL CORPS RESEARCH AND DEVELOPMENT COMMAND (ARMY CHEMICAL
CENTER, MD.)

DATE: 6005

DESC: Nuclear Weapon Effects structures field fortifications L1 TROOPS IN
FIELD

DESC: TABULAR

DESC: Nuclear Weapon Effects on animals thermal burns heating L1

REPN: CWLR 2394

SUJO: 3-140-000 ; 3-313-100

TEMP: A5249

TITL: SIGNIFICANCE OF THERMAL RADIATION AS A HAZARD TO TROOPS IN FOXHOLES
(U), 45 P., (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17987

AUTH: BOYD D.M. ; HOWE E.E. ; NEEDELS T.S. ; TOMLINSON W.R.JR. ; WATSON
B.B. ; WITHERS W.P.

CLSS: SRD

CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)

DATE: 6105

DESC: Nuclear Energy Power Nuclear Materials propulsion L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5

DESC: TABULAR

REPN: ORO T 399

SUJO: 3-312-210 ; 3-512-000

TEMP: A5481

TITL: OPERATIONAL FEASIBILITY OF NUCLEAR-POWERED COMBAT VEHICLES (U), 88

P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 17991

ABS: This study undertook to estimate the radiation dose likely to be received by medium and heavy tank crews by utilizing a battle simulation in which nuclear weapons were used to a great extent and in which medium and heavy tanks were employed in typical combat missions. The effect of assuming various mixes of air and ground bursts was examined. The dose due to initial gamma and neutron radiation was taken into account as well as the contribution of fallout and of radiation induced in the soil in the vicinity of the Ground Zero (GZ) of an air burst. The effect of changing the initial gamma radiation transmission factor from 0.3 to 0.1 was also examined. A computer program was designed to facilitate the large number of calculations involved.

AUTH: DOERFER G.L. ; DONALDSON J.L. ; FULCHER E.M. ; MCDOWELL E.C.

CLSS: SRD

CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)

DATE: 5912

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW FALLOUT INDIGO I

DESC: Nuclear Warfare Theater operations scenarios battlefield environment L1

DESC: TABULAR

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

REPN: ORO SP 120

TSHO: LOW-ALT

SUJO: 2-225-100 ; 3-151-000 ; 3-312-210 ; 3-411-200

TEMP: A5485

TITL: EXPECTED RADIATION DOSES FOR TANK CREWS IN NUCLEAR COMBAT (U), 56

P., (SRD)

TNFF: 4860

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18197

ABS: The NIKE Hercules/W31 system was tested for EMR susceptibility during July and August of 1961. The missile was tested in a normal

field configuration; while being irradiated with EMR, the missile system was put through a simulated launching procedure as well as the steps to be taken in case of a missile misfire.

AUTH: JULIUS E.R.
CLSS: SRD
CORP: SANDIA CORPORATION
DATE: 6203
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
REPN: SCDR 3662 ; RS 3423/824
SOCE: W-31
SUJO: 4-838-400
SYST: NIKE HERCULES
TEMP: A5925
TITL: ELECTROMAGNETIC RADIATION SUSCEPTIBILITY TEST ON THE NIKE HERCULES
MISSILE/W31WARHEAD (U), 43 P., (SRD)

TNFF: 8850

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created: 12/27/1991 type: REPORT permanent

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INUM: 18244
CLSS: SRD
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6212
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
EFFT: TREE
REPN: SC 4748 (WD) ; RS 3423/1119
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 3-161-100 ; 4-829-500
TEMP: A5883
TITL: NEUTRON AND GAMMA RAY RADIATION VULNERABILITY; OPERATION DOMINIC,
NTS SANDIA TEST GROUP, PROJECT 45.7 (U), 32 P., (SRD)

TREE: 397

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18252
CLSS: SRD

CORP: SANDIA CORPORATION
DATE: 6105
DESC: Environmental Conditions at Nuclear Weapon Test Site site background
radiation L1
DESC: TABULAR
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
REPN: SC 4552(WD) ; RS 3423/471
SOCE: FUFO CLASS ; XW-50-X1 ; XW-59
SUJO: 4-838-600 ; 4-846-000
SYST: F-104 ; F-105 ; MINUTEMAN ; SKYBOLT
TEMP: A5892
TITL: CLASSIFIED TITLE (U) 45 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18305
AUTH: PUGH G.E.
CLSS: U
CCDE: WSEG-10
CORP: INSTITUTE FOR DEFENSE ANALYSES, WEAPONS SYSTEMS EVALUATION DIV.
(WASH., D.C.)

DATE: 6000
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: THEORY TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
EFFT: GAMMA
REPN: WSEG RESEARCH MEMO. 10 SUPPL.
SUJO: 2-225-000 ; 3-312-000
TITL: REVISION OF FALLOUT PARAMETERS FOR LOW-YIELD DETONATIONS; SUPPLEMENT
TO WSEG RESEARCH MEMO 10 (U), CA. 50 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18306
AUTH: PUGH G.E. ; GALIANO R.J.
CLSS: U
CCDE: WSEG-10
CORP: INSTITUTE FOR DEFENSE ANALYSES, WEAPONS SYSTEMS EVALUATION DIV.
(WASH., D.C.)

DATE: 5910
DESC: Nuclear Weapon Environment fallout Deposition L1

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: THEORY TABULAR
EFFT: GAMMA
REPN: WSED RESEARCH MEMO. 10
SUJO: 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-312-100
TITL: ANALYTIC MODEL OF CLOSE-IN DEPOSITION OF FALLOUT FOR USE IN
OPERATIONAL-TYPE STUDIES (U), 160 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18448
AUTH: GILBERT F.C. ; FREDEN S.C.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 5903
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
REPN: UCRL 5510
SHOT: HICKORY ; MAPLE
TSHO: WATER-SURFACE
SOCE: 
SUJO: 1-120-000 ; 4-820-300
TEMP: A6216
TITL: EXTERNAL NEUTRON MEASUREMENTS, OPERATION HARDTACK-PHASE I (U), 39
P., (SRD)

TREE: 920

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copy: 1 id: 51232-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18449
AUTH: NANCE O. ; SMITH H.A.
CLSS: SRD
CCDE: SHARK (X-RAY LOADING) LLL
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 5907
DESC: Nuclear Weapon Effects materials not systems associated L1

DESC: THEORY CODE
EFFT: X-RAY
REPN: UCRL 5616 T
SUJO: 3-240-000
TEMP: A6217
TITL: X-RAY EFFECTS CODE (U), 52 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18450
AUTH: SMITH H.A. ; NANCE O.
CLSS: SRD
CCDE: SHARK (X-RAY LOADING) LLL
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6005
DESC: THEORY EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Effects materials metals alloys L1 PB AL C MICARTA FE
DESC: equation of state heat of vaporization thermal conductivity opacity

L1 EOS

EFFT: X-RAY
REPN: UCRL 5660
SHOT: LOGAN
TSHO: UG-CONTAINED
SUJO: 3-243-000 ; 9-710-000
TEMP: A6218
TITL: X-RAY EFFECTS (U), 77 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18451
AUTH: BONNER N.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6006
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

REPN: UCRL 5995
TSHO: WATER-SURFACE
SOCE: WHISTLE ; CHERUB ; FLUTE
SUJO: 1-110-000 ; 1-130-000 ; 4-820-300
TEMP: A6219
TITL: CLASSIFIED TITLE (U) 31 P., (SRD)
TREE: 920

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18451

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copy: 1 id: 51235-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18452
AUTH: VERGAMINI P.L.
CLSS: U
CONN: AF 33 (616) 7017
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE
DATE: 6105
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Radiation Transport thermal L1
DESC: THEORY
REPN: ASD TR 61 60
SHOT: LACROSSE ; CHEROKEE ; ZUNI ; ERIE ; FLATHEAD ; KICKAPOO ; INCA ;
DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON
TSHO: SURFACE ; LOW-ALT
SUJO: 1-210-000 ; 9-610-000
TITL: SIMPLIFIED METHOD FOR PREDICTING THERMAL RADIATION IN THE VICINITY
OF NUCLEAR DETONATIONS (U), 34 P., (U)

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18452

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copy: 1 id: 51236-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18452-SUP
AUTH: VERGAMINI P.L.
CLSS: SFRD
CONN: AF 33 (616) 7017
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE
DATE: 6105
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: EXPERIMENTAL SUMMARY
REPN: ASD TR 61 60 SUPL.1
SHOT: ZUNI ; FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON
SUJO: 1-210-000

TEMP: A6220
TITL: SIMPLIFIED METHOD FOR PREDICTING THERMAL RADIATION IN THE VICINITY
OF NUCLEAR DETONATIONS SUPPLEMENT 1--SELECTED REDWING THERMAL ENERGY
DATA (U), 4 P., (SFRD)

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18452-SUP

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copy: 1 id: 51237-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18455
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6206
DESC: Nuclear weapon test placement including cab construction for actual
detonation L1

DESC: Nuclear weapon security control L1

DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1

DESC: TABULAR

REPN: UCRL 6971

SOCE: [REDACTED]

SUJO: 4-832-700 ; 4-833-000 ; 4-838-600

SYST: POLARIS ; MK 2RV ; MK 1RV

TEMP: A6223

TITL: REPORT OF POLARIS ARMING CONTROL SUBCOMMITTEE (U), 205 P., (SRD)

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copy: 1 id: 51240-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18456
AUTH: BEANE F.O. ; CHAPMAN W.H.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6209
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 7026

SHOT: HUDSON

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-836-000

TEMP: A6224

TITL: CLASSIFIED TITLE (U) 16 P., (SRD)

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18456

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copy: 1 id: 51241-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18487

AUTH: TOMNOVEC F.

CLSS: SRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO, CA.)

DATE: 6001

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: EXPERIMENTAL

REPN: NRDL TR 393

SHOT: OWENS

TSHO: LOW-ALT

SUJO: 2-223-100

TEMP: A5551

TITL: CONTRIBUTION OF SI28 (N,P) A1 28 REACTION TO INDUCED A1 27 (N,Y)
A128 RADIATION FIELDS FROM ATOMIC WEAPONS (U), 12 P., (SRD)

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18487

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copy: 1 id: 51272-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18552

AUTH: CALME E.E. ; PATTERSON W.J.

CLSS: U

CONN: DA 36 039 SC 90735

CORP: GENERAL ELECTRIC CO., RECEIVING TUBE DEPT. (OWENSBORO, KY.)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 ELECTRON TUBES + TUBE PARTS

SUJO: 4-170-000

TITL: BASIC RADIATION EFFECTS MECHANISM STUDY ON ELECTRON TUBES; REPORT
NO. 2 (U), 75 P., (U)

TREE: 305 ; 200

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18552

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copy: 1 id: 51333-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18581
AUTH: LOEWE W.E. ; JERRI A.J. ; LYDAY R.O.JR. ; MCELROY W.N. ; SPERBER D.
CLSS: SRD
CORP: ARMY NUCLEAR DEFENSE LAB. (ARMY CHEMICAL CENTER, MD.)
DATE: 6202
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 DOSE
DESC: test instruments nuclear radiation neutron L1
REPN: NDL TR 27
SHOT: KICKAPOO
TSHO: SURFACE ; WATER-SURFACE ; LOW-ALT
SUJO: 1-110-000 ; 4-342-000
TEMP: A5506
TITL: NEUTRON DATA EVALUATION (U), 180 P., (SRD)
TREE: 920 ; 652

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18581

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copy: 1 id: 51356-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18716
ABS: The results of experimental susceptibility tests performed on the
MC-627/MC-628 pulse fuzes are reported. The fuzes and testing
procedures are briefly described. Jamming signals included CW, swept
CW, amplitude-modulated CW, noise, and various pulse signals.
AUTH: AMENDE J.W.
CLSS: S
CONN: DA 36 039 SC 78281
CORP: SYLVANIA ELECTRIC PRODUCTS INC. (MOUNTAIN VIEW, CA.)
DATE: 6006
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
DESC: EXPERIMENTAL
REPN: EDL M256
SOCE: MK 28 BOMB
SUJO: 4-838-400
TEMP: A6536
TITL: EXPERIMENTAL STUDY OF THE SUSCEPTIBILITY OF MC-627/MC-628 FUZES TO
ELECTROMAGNETIC RADIATION (U) 64 P., (S)
TNFF: 8850

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18716

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copy: 1 id: 51496-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18729

ADNO: 271339
AUTH: LUBATTI H.J. ; WICKLEIN H.W.
CLSS: U
CONN: AF 04 (647) 289
CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)
DATE: 6000
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TA + AL CAPACITORS
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIER
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects missile systems strategic electronics L1
MINUTEMAN SQUIB DRIVER CIRCUIT AMPLIFIER CIRCUIT
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR-S
EFFT: TREE
REPN: T2 2128
SUJO: 3-112-130 ; 3-213-000 ; 3-221-000 ; 3-229-000 ; 3-231-000
TITL: OCTOBER, 1960, GODIVA III MINUTEMAN RADIATION EFFECTS TESTS (U), 105
P., (U)
TREE: 392

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18729

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copy: 1 id: 51509-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18730
CLSS: U
CCDE: ZZ (RADIATION EFFECTS DATA REDUCTION)
CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)
DATE: 6200
DESC: Simulation Facilities Techniques TREE L1 FLASH X-RAY
DESC: test instruments electronic vulnerability TREE L1 TRAILER CURRENT
PROBE PREAMP
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
TRANSMISSION LINES
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TIMM-S (580 DEGREES C VACUUM)
EFFT: TREE
REPN: D2 9878 5
SUJO: 3-222-000 ; 3-231-000 ; 4-170-000 ; 4-272-000 ; 4-372-000
TITL: TRANSIENT RADIATION EFFECTS INSTRUMENTATION TECHNIQUES (U), 171 P.,
(U)
TREE: 642

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18730

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copy: 1 id: 51510-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18731

AUTH: FIRTH W.G.

CLSS: U

CONN: AF 04 (647) 289

CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)

DATE: 5900

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES TRANSISTORS

DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
FLIP-FLOP

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects missile systems strategic electronics L1
MINUTEMAN FLIP-FLOP

EFFT: TREE

REPN: D7 2641

SUJO: 3-112-130 ; 3-211-000 ; 3-221-000 ; 3-229-000

TITL: EFFECTS OF A NUCLEAR RADIATION BURST ON THE MINUTEMAN GUIDANCE AND
CONTROL TRANSISTOR FLIP-FLOP (U), 25 P., (U)

TREE: 342

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18731

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copy: 1 id: 51511-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18765

AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A. ; TYLKA J.

CLSS: U

CONN: DA 36 039 SC 85322

CORP: ADMIRAL CORP. (CHICAGO, IL.)

DATE: 6211

DESC: SIMULATION (LINAC CYCLOTRON PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 QUARTZ CRYSTAL UNITS CR18U CR19U CR52U CR54U
CR47U CR(XM17)U CR18U

EFFT: TREE

SUJO: 3-132-220

TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS; REPORT NO. 5
(U), CA. 300 P., (U)

TREE: 367

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18765

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copy: 1 id: 51541-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18769
CLSS: U
CCDE: ZZ (CIRCUIT ANALYSIS)
CONN: AF 29 (601) 5399
CORP: IBM CORP. (OWEGO, N.Y.)
DATE: 6212
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 COMPUTERS FOR TITAN II + STINGS
REPN: IBM 62 521 27
SUJO: 4-170-000
TITL: PULSE RADIATION EFFECTS ON AEROSPACE DIGITAL COMPUTER (U), 20 P.,
(U)
TREE: 341

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18769

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copy: 1 id: 51545-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18837
ABS: Tests were conducted at the naval weapons laboratory during January
1961, to determine the susceptibility of the MK 101/S2F
weapon/aircraft system to electromagnetic radiation from radio and
radar transmitters.
AUTH: CARTER A.G.JR.
CLSS: SRD
CORP: SANDIA CORPORATION
DATE: 6203
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
DESC: EXPERIMENTAL
REPN: SCDR 267 61 ; RS 3423/598
SOCE: MK 101 BOMB
SUJO: 4-838-400
SYST: S-2F AIRCRAFT
TEMP: A6451
TITL: VULNERABILITY TESTS OF THE MK 101 WITH THE S2F AIRCRAFT (U) 121 P.,
(SRD)
TNFF: 8850

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18837

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copy: 1 id: 51613-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 18908
AUTH: KRIEGER H.A. ; CARLSON C.R.
CLSS: SRD
CORP: SANDIA CORPORATION (ALBUQUERQUE, N.M.)
DATE: 6006
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L5
DESC: TABULAR
DESC: Nuclear Warfare Strategic targeting fuzing salvage fuzing optimum
burst L1
DESC: Nuclear Weapon Effects flight systems airplanes structures L5
EFFT: NEUTRON ; AIR-BLAST
REPN: SCDR 166 60 ; RS 3423/177
SUJO: 3-111-100 ; 3-161-100 ; 3-312-100 ; 3-425-100
SYST: B-52A AIRCRAFT
TEMP: A6354
TITL: NUCLEAR BURSTS FROM KILLED DELIVERY SYSTEMS (DEAD MAN SALVAGE) (U),
84 P., (SRD)

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18908

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copy: 1 id: 51683-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18953
AUTH: DUFF R.E. ; WATTENBURG W.H.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6212
DESC: test instruments test hardware shock wave display L5 CABLE
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
EFFT: TREE
REPN: UCRL 7164
SHOT: ANACOSTIA
TSHO: UG-CONTAINED
SUJO: 2-622-000 ; 3-231-000 ; 4-313-000
TEMP: A6553
TITL: PERFORMANCE OF COAXIAL CABLE IN THE VICINITY OF A NUCLEAR EXPLOSION
20 P., (SRD)

TREE: 390

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18953

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copy: 1 id: 51728-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19072
AUTH: BANKOFIER A. ; NEWCOMBE C.L. ; TERESI J.D. ; MACKIN J.L.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA.)
DATE: 6212
DESC: TABULAR
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety
handling transport safeguards L1
REPN: NRDL TR 545 SUPPL
SUJO: 3-520-000
TEMP: A6964
TITL: RADIATION HAZARDS ASSOCIATED WITH OPERATION OF SNAP, ROVER, AND
PLUTO NUCLEAR-POWERED SPACE UNITS (U) 134 P., (SRD)

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19072

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copy: 1 id: 51846-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19073

ABS: This bibliography presents abstracts of all research reports
published prior to October 1961 by the U.S. Army Chemical Corps
Nuclear Defense Laboratory and its predecessors, reports prepared by
NDL personnel and published by other agencies, and reports resulting
from research conducted under contract to this laboratory. It
supersedes CRLR 413, bibliography, with abstracts, of reports of
radiological division, chemical and radiological laboratories (u),
and CWL SP 3-5, bibliography with abstracts of radiological division
reports from may 1954 to may 1958. Included in this report are
abstracts of Technical Command Reports (TCR) prior to 1951; Chemical
and Radiological Laboratories Reports (CRLR) from 1951 to 1956;
Chemical Warfare Laboratories Reports (CWLR) from 1956 to September
1960; U.S. Army Chemical Corps Nuclear Defense Laboratory reports
(NDL) from September 1960 to October 1961;

ABS: Technical Memoranda (TM) from November 1957 to October 1961, interim
test reports (ITR) and weapons test reports (WT) to October 1961. A
subject index and an author index are also included.

AUTH: CONWAY B.J.

CLSS: SRD

CORP: ARMY NUCLEAR DEFENSE LABORATORY (ARMY CHEMICAL CENTER, MD.)

DATE: 6201

DESC: Nuclear Warfare Postattack Recovery bibliographies L1

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

DESC: Nuclear Weapon Environment Prompt Neutrons L1

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: BIBLIOGRAPHY
DESC: Cross Sections gamma L1
DESC: Cross Sections neutron L1
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NDL TR 25
SUJO: 1-100-000 ; 1-210-000 ; 1-710-000 ; 3-312-000 ; 3-440-100 ;
3-448-900 ; 9-820-000 ; 9-830-000
TEMP: A6965
TITL: BIBLIOGRAPHY, WITH ABSTRACTS, OF REPORTS OF NUCLEAR DEFENSE
LABORATORY AND ITS PREDECESSORS (U) 156 P., (SRD)

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19073

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copy: 1 id: 51847-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19108
AUTH: VORESS H.E.
CLSS: SRD
CORP: ATOMIC ENERGY COMMISSION
DATE: 6105
DESC: BIBLIOGRAPHY SUMMARY
DESC: Nuclear Warfare Strategic radiological warfare L1
REPN: TID 3632
SUJO: 3-422-800
TEMP: A6672
TITL: RADIOLOGICAL WARFARE (U) 27 P., (SRD)

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19108

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copy: 1 id: 51882-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19122
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6206
DESC: Nuclear Weapon Test safety L1
DESC: TABULAR
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links L1 NUCLEAR WARHEAD
REPN: CN TGD 103, REV 1
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 4-829-500 ; 4-856-000
TEMP: A6712

TITL: SMALL BOY LRL SECTOR RECOVERY PROCEDURE (U) 53 P., (SRD)

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19122

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copy: 1 id: 51896-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19124

AUTH: WESTLUND E.F. ; STEELE W.J.

CLSS: SRD

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6003

DESC: Nuclear Weapon Effects materials metals alloys L1

DESC: TEST DATA L1 ; EXPERIMENTAL

EFFT: X-RAY

REPN: COC 1567

SHOT: LOGAN

TSHO: UG-CONTAINED

SUJO: 3-243-000

TEMP: A6714

TITL: METALLOGRAPHIC EXAMINATION OF METAL SAMPLES FROM LOGAN SHOT (U) 16

P., (SRD)

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copy: 1 id: 51898-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19191

AUTH: BROWER R.W.

CLSS: SRD

CORP: EG+G

DATE: 6109

DESC: TABULAR

DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1

DESC: test instruments visible L1

DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1

REPN: EGG L 537

SHOT: MARSHMALLOW

TSHO: UG-CONTAINED

SUJO: 4-382-000 ; 4-820-500 ; 4-820-600

TEMP: A6903

TITL: DASA PROJECT 841-OPTICAL LINKS--OPTICAL DATA GATHERING SYSTEMS OF
PROGRAM 800 (U) 78 P., (SRD)

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19191

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copy: 1 id: 51973-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19208

ABS: Because many weapon systems involve wide spread dispersal and a short reaction time, they present a serious safety and control problem. To be acceptable in terms of the risk of unauthorized nuclear expenditure in the time frame of its availability, advanced technology not here-to-fore applied must be considered. It seems clear that the prevention of unauthorized intentional acts (the control problem) rather than the prevention of unauthorized unintentional acts (the safety problem) are most likely to be of primary concern. It is with the problem of control that this report concerns itself.

AUTH: FRIED M.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6212

DESC: TABULAR

DESC: Nuclear weapon security control L1

REPN: UCID 4545

SUJO: 4-832-700

TEMP: A6986

TITL: INTEGRATED WEAPON AND INTEGRITY SENSING SYSTEM PRELIMINARY STUDY
REPORT (U) 23P., (SRD)

TNFF: 7496

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copy: 1 id: 51990-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19209

AUTH: CANFIELD R.V. ; GUSTAVSON M.R. ; SALISBURY J.D. ; DARBY G.C.

CLSS: SFRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6212

DESC: THEORY

DESC: Nuclear weapon security control L1

REPN: UCID 4542

SUJO: 4-832-700

TEMP: A6987

TITL: SYSTEM FOR NUCLEAR WEAPONS CONTROL (U), 34 P., (SFRD)

TNFF: 7496

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copy: 1 id: 51991-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19210
AUTH: O'CONNELL L.G.
CLSS: SFRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6211
DESC: Nuclear weapon security control L1
DESC: TABULAR
REPN: UCID 4538
SUJO: 4-832-700
TEMP: A6988
TTTL: WIRE MEMBRANES FOR INTEGRITY SENSING SYSTEMS (U) 53 P., (SFRD)
TNFF: 7496

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19210
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copy: 1 id: 51992-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19211
AUTH: GRASBERGER W.H.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6210
DESC: THEORY
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
REPN: UCID 4533
SHOT: MARSHMALLOW
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 1-620-000
TEMP: A6989
TTTL: CLASSIFIED TITLE (U) 14 P., (SRD)
TREE: 930

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19211
.endblock

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copy: 1 id: 51993-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19212
AUTH: WAINWRIGHT T.E.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6006
DESC: THEORY SUMMARY
DESC: Nuclear weapon basic design L1
REPN: UCID 4152
SUJO: 4-831-000
TEMP: A6990
TITL: SCHEME FOR CONCENTRATING RADIANT ENERGY FROM A BOMB (U) 7 P., (SRD)

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19212

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copy: 1 id: 51994-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19213
AUTH: SHEARER J.N.
CLSS: S
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 5904
DESC: Nuclear Weapon Test safety L1
DESC: TEST DATA L1 MATERIALS ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1
EFFT: X-RAY
REPN: UCID 4502
SHOT: LOGAN
TSHO: UG-CONTAINED
SUJO: 3-243-000 ; 4-856-000
TEMP: A6991
TITL: RECOVERY OPERATION FOR THE LOGAN SHOT (U) 39 P., (S)

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19213

.endblock

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copy: 1 id: 51995-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19224
AUTH: STERN H.A. ; FREE J.J. ; LILLER P.R. ; TURNBULL J.C.
CLSS: U
CONN: DA 36 039 SC 89121
CORP: RCA, ELECTRON TUBE DIVISION (LANCASTER, PA.)
DATE: 6200
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 ELECTRON TUBE MATERIALS
ELECTRON TUBES POWER TETRODE TRIODE NUVISTOR
DESC: Nuclear Weapon Effects materials carbon L1

DESC: Nuclear Weapon Effects materials ceramics optical L1
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-229-000 ; 3-241-000 ; 3-248-000
TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; THIRD
QUARTERLY PROGRESS REPORT (U), 50 P., (U)
TREE: 305

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19224
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copy: 1 id: 52015-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19501
AUTH: SULIT R.A.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA.)
DATE: 6006
DESC: Nuclear Weapon Effects ship systems surface ships L1 CREW
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: Nuclear Weapon Environment Thermal Output rate L5
DESC: TABULAR
EFFT: THERMAL
REPN: NRDL TR 427
SUJO: 1-210-000 ; 1-240-000 ; 3-122-000 ; 3-313-100
TEMP: A7371
TITL: PREDICTION OF SHIPBOARD THERMAL COMBAT INEFFECTIVES (U), 83 P., (C)

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19501
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copy: 1 id: 52261-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19540
ABS: Instrumented and go-no-go tests were conducted by the U.S. Naval
Weapons Laboratory aboard the USS GYATT (DDG-1) to determine the
susceptibility of the BW-1 Terrier missile to electromagnetic
radiation from radio and radar transmitters installed on board.
AUTH: GILBERTSON W.L.
CLSS: C
CORP: NAVAL WEAPONS LABORATORY (DAHLGREN, VA.)
DATE: 5910
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
REPN: NWL R 1677
SUJO: 4-838-400

SYST: TERRIER
TEMP: A7343
TITL: INVESTIGATION OF ELECTROMAGNETIC HAZARDS TO THE BW-1 TERRIER MISSILE
ABOARD THE USS GYATT (DDG-1) (U), CA. 20 P., (C)

TNFF: 8850 ; 8883

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copy: 1 id: 52298-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19541

ABS: Instrumented and go-no-go tests were conducted on board the USS
HELENA (CA-75) to determine the susceptibility of the REGULUS I
rocket booster igniter (MK 174), to activation as a result of
exposure to the electromagnetic environment existing aboard.

AUTH: SHORT J.S. ; HINKLE C.J.

CLSS: C

CORP: NAVAL WEAPONS LABORATORY (DAHLGREN, VA.)

DATE: 5909

DESC: EXPERIMENTAL

DESC: Nuclear weapon safety EM pickup EMR RF hazards L1

REPN: NWL R 1676

SUJO: 4-838-400

SYST: REGULUS

TEMP: A7344

TITL: INVESTIGATION OF ELECTROMAGNETIC RADIATION HAZARDS TO REGULUS I
MISSILE BOOSTER IGNITER ABOARD THE USS HELENA (CA-75) (U), CA. 20
P., (C)

TNFF: 8850 ; 8883

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copy: 1 id: 52299-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19573

ABS: The external radiation emitted from MK-50, -54, and -59 weapons was
measured. The gamma and neutron components were measured with film
badges and an assortment of standard radiation survey instruments.
The total dose rate from each device was measured for the skin and
the whole body at various distances.

AUTH: HANKINS D.E. ; DUMMER J.E.

CLSS: SRD

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS, NM.)

DATE: 6208

DESC: monitoring identification of unexploded devices stockpile radiant

emissions intrinsic radiations L1

DESC: Nuclear weapon safety radiological L1
REPN: LA 2699
SOCE: MK 54 ; MK 50 ; MK 59
SUJO: 4-838-100 ; 4-839-000
TEMP: A7218
TITL: RADIATION SURVEY OF TYPES 74 AND 81 NUCLEAR PITS AND MK-50, -54, AND
-59 NUCLEAR WARHEADS (U) 18 P., (SRD)
TNFF: 7450 ; 8860

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19573

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copy: 1 id: 52331-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19639-222
AUTH: WAXLER D.
CLSS: SRD
CORP: PICATINNY ARSENAL (DOVER, N.J.)
DATE: 6210
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety EM pickup EMR RF hazards L5
SUJO: 4-838-400
SYMJ: ARMY FOURTH NUCLEAR WEAPONS SYMPOSIUM
SYST: LACROSSE ; NIKE HERCULES
TITL: VULNERABILITY OF NUCLEAR WEAPONS TO ELECTROMAGNETIC RADIATION (U), 8
P., (SRD)
TNFF: 8850

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19639-222

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copy: 1 id: 52412-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19639-299
AUTH: SQUIRES R.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6210
DESC: SUMMARY
DESC: Nuclear weapon program management documents L5
SUJO: 4-830-500
SYMJ: ARMY FOURTH NUCLEAR WEAPONS SYMPOSIUM
TITL: WARHEAD DESIGN PROGRESS (U), 7 P., (SRD)

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19639-299

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copy: 1 id: 52417-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19649
AUTH: CHRISTOFILOS N.C.
CLSS: U
CONN: W 7405 ENG 48 (AEC)
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 5906
DESC: THEORY SURVEY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-822-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 8 (U), P 869,
AUGUST, 1959
TITL: ARGUS EXPERIMENT (U), 7 P (U)

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19649

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copy: 1 id: 52432-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19650
AUTH: VAN ALLEN J.A. ; MCILWAIN C.E. ; LUDWIG G.H.
CLSS: U
CONN: DA 11 022 ORD 2788
CORP: STATE UNIVERSITY OF IOWA (IOWA CITY-IOWA)
DATE: 5904
DESC: SATELLITE (EXPLORER 4) ; EXPERIMENTAL
DESC: test instruments nuclear radiation proton alpha heavy particle
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris
DESC: test instruments nuclear radiation beta electron beams
SHOT: ARGUS-1 ; ARGUS-2 ; ARGUS-3
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-217-000 ; 4-343-000 ; 4-344-000 ; 4-822-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 3 (U), P 877,
AUGUST, 1959
TITL: SATELLITE OBSERVATIONS OF ELECTRONS ARTIFICIALLY INJECTED INTO THE
GEOMAGNETICFIELD (U), 15 P (U)

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copy: 1 id: 52433-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19670
AUTH: CLADIS J.B. ; WALT M.
CLSS: U
CONN: AF 29 (601) 1764 (AFSWC) ; AF 29 (601) 2862 (AFSWC)
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA)
DATE: 6209
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
SHOT: ARGUS-2
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 67, NUMBER 13 (U), P
5035, DECEMBER 1962
TITL: BEHAVIOR OF GEOMAGNETICALLY TRAPPED ELECTRONS INJECTED BY
HIGH-ALTITUDE NUCLEAR DETONATIONS (U), 20 P (U)

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19670
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copy: 1 id: 52453-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19675
AUTH: BROWN W.L. ; GABBE J.D.
CLSS: U
CORP: BELL TELEPHONE LABORATORIES (MURRAY HILL-NEW JERSEY)
DATE: 6211
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: SATELLITE (TELSTAR) ; EXPERIMENTAL
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 607,
FEBRUARY 1, 1963
TITL: ELECTRON DISTRIBUTION IN THE EARTH'S RADIATION BELTS DURING JULY
1962 AS MEASURED BY TELSTAR (U), 12 P (U)

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19675
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copy: 1 id: 52458-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19676
AUTH: VAN ALLEN J.A. ; FRANK L.A. ; O BRIEN B.J.
CLSS: U
CORP: STATE UNIVERSITY OF IOWA (IOWA CITY-IOWA)
DATE: 6211
DESC: SATELLITE (INJUN 1) SATELLITE (EXPLORER 14) SATELLITE (TELSTAR) ;
EXPERIMENTAL
DESC: test instruments nuclear radiation proton alpha heavy particle
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-343-000 ; 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 619,
FEBRUARY 1, 1963
TITL: SATELLITE OBSERVATIONS OF THE ARTIFICIAL RADIATION BELT OF JULY 1962
(U), 9 P (U)

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copy: 1 id: 52459-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19677
AUTH: SMITH R.V. ; IMHOF W.L.
CLSS: U
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA)
DATE: 6211
DESC: SATELLITE (1962 ALPHA UPSILON) ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: test instruments nuclear radiation beta electron beams
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000 ; 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 629,
FEBRUARY 1963
TITL: SATELLITE MEASUREMENTS OF THE ARTIFICIAL RADIATION BELT (U), 5 P (U)

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19677

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copy: 1 id: 52460-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19678

AUTH: PIEPER G.F. ; WILLIAMS D.J. ; FRANK L.A.
CLSS: U
CONN: NOW 62 0604 C (BNW) ; N 9 ONR 93803 (ONR)
CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MARYLAND) , STATE
UNIVERSITY OF IOWA(IOWA CITY-IOWA)
DATE: 6211
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: SATELLITE (TRAAC) ; EXPERIMENTAL
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 635,
FEBRUARY 1, 1963
TTTL: TRAAC OBSERVATIONS OF THE ARTIFICIAL RADIATION BELT FROM THE JULY 9,
1962, NUCLEAR DETONATION (U), 6 P (U)

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copy: 1 id: 52461-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19679
AUTH: MOZER F.S. ; ELLIOTT D.D. ; MIHALOV J.D. ; PAULIKAS G.A. ; VAMPOLA
A.L. ; FREIDEN S.C.
CLSS: U
CONN: AF 04 (695) 169
CORP: AEROSPACE CORPORATION (EL SEGUNDO-CALIFORNIA)
DATE: 6211
DESC: test instruments nuclear radiation proton alpha heavy particle
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: SATELLITE (1962 ALPHA UPSILON) ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-213-000 ; 2-217-000 ; 4-343-000 ; 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 641,
FEBRUARY 1, 1963
TTTL: PRELIMINARY ANALYSIS OF THE FLUXES AND SPECTRUMS OF TRAPPED
PARTICLES AFTER THE NUCLEAR TEST OF JULY 9, 1962 (U), 9 P (U)

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copy: 1 id: 52462-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19680

AUTH: PIEPER G.F.
CLSS: U
CONN: NOW 62 0604 C (BNW)
CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MARYLAND)
DATE: 6211
DESC: SATELLITE (TRAAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 651
FEBRUARY 1, 1963
TTTL: SECOND RADIATION BELT FROM THE JULY 9, 1962, NUCLEAR DETONATION (U),
5 P (U)

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copy: 1 id: 52463-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19681
AUTH: MOTZ H.T. ; CARTER R.E.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)
DATE: 6211
DESC: test instruments nuclear radiation beta electron beams
SUJO: 4-344-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 657,
FEBRUARY 1, 1963
TTTL: ARTIFICIAL RADIATION BELT STUDIES WITH A FISSION BETA-RAY SOURCE
(U), 5 P (U)

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19681

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copy: 1 id: 52464-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19682
AUTH: HESS W.N.
CLSS: U
CORP: NASA/GODDARD SPACE FLIGHT CENTER (GREENBELT-MARYLAND)
DATE: 6211
DESC: SATELLITE (TRAAC) SATELLITE (TELSTAR) SATELLITE (INJUN 1) ;
EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
REP: NASA TN D 1687
SHOT: STARFISH
TSHO: HI-ALT

SUJO: 2-217-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 667,
FEBRUARY 1, 1963
TITL: ARTIFICIAL RADIATION BELT MADE ON JULY 9, 1962 (U), 17 P (U)

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copy: 1 id: 52465-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19685
AUTH: DYCE R.B. ; HOROWITZ S.
CLSS: U
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA) , AIR
FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)
DATE: 6211
DESC: Nuclear Weapon Environment Induced Synchrotron Noise
DESC: PALMYRA I HUANCAYO PERU WAKE I OAHU HAWAII CANTON I JOHNSTON I S1
SHIP S2 SHIP S3 SHIP S4 SHIP ; EXPERIMENTAL
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-420-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 713,
FEBRUARY 1, 1963
TITL: MEASUREMENTS OF SYNCHROTRON RADIATION AT CENTRAL PACIFIC SITES (U),
9 P (U)

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copy: 1 id: 52468-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19686
AUTH: PETERSON A.M. ; HOWER G.L.
CLSS: U
CORP: STANFORD UNIVERSITY (PALO ALTO-CALIFORNIA) , STANFORD RESEARCH
INSTITUTE (MENLO PARK-CALIFORNIA)
DATE: 6211
DESC: Nuclear Weapon Environment Induced Synchrotron Noise
DESC: THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000 ; 2-420-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 723,
FEBRUARY 1, 1962
TITL: SYNCHROTRON RADIATION FROM HIGH-ENERGY ELECTRONS (U), 12 P (U)

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19686

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copy: 1 id: 52469-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19814

AUTH: JOHNSON M.H. ; LIPPMANN B.A.

CLSS: U

CORP: AERONUTRONIC DIVISION OF PHILCO CORPORATION (NEWPORT
BEACH-CALIFORNIA) , LAWRENCE RADIATION LABORATORY
(LIVERMORE-CALIFORNIA)

DATE: 6008

DESC: SURVEY THEORY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP

EMPF: 221

TSHO: HI-ALT

SUJO: 2-510-000

SYMJ: PHYSICAL REVIEW (U) VOLUME 119, NUMBER 3 (U), P 827, AUGUST 1, 1960

TITL: ELECTROMAGNETIC SIGNALS FROM NUCLEAR EXPLOSIONS IN OUTER SPACE (U),
2 P (U)

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19814

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copy: 1 id: 52596-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19819-018

AUTH: HILLEND AHL R.W.

CLSS: SRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 5912

DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L5

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Environment Visible Output rate L5

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5

SUJO: 1-410-000 ; 1-440-000 ; 2-110-000

SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE
PROTECTION FROM NUCLEAR WEAPONS FLASH

TITL: NUCLEAR WEAPONS FLASH CHARACTERISTICS (U), 16 P., (SRD)

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copy: 1 id: 52613-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19819-101
AUTH: MONAHAN T.I.
CLSS: SRD
DATE: 5912
DESC: SUMMARY
DESC: Simulation Facilities Techniques biomedical nuclear radiation L5
RETINAL BURN
SUJO: 4-251-000
SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE
PROTECTION FROM NUCLEAR WEAPONS FLASH
TITL: SUMMARY REPORT ON ACTIVITY AT THE NAVAL MATERIAL LABORATORY NEW YORK
NAVAL SHIPYARD, BROOKLYN, N.Y. (U), 6 P., (SRD)

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19819-101

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copy: 1 id: 52619-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19819-168
AUTH: JENKINS R.J.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5912
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals thermal ocular effects L1
SUJO: 3-313-200
SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE
PROTECTION FROM NUCLEAR WEAPONS FLASH
TITL: LABORATORY PROGRAM TO STUDY METHODS OF PROTECTION OF THE EYES FROM
FLASH BLINDNESS (U), 8 P., (SRD)

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19819-168

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copy: 1 id: 52626-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19858
CLSS: SRD
CORP: CONTINENTAL ARMY COMMAND (FT. BLISS, TX.)
DATE: 6112
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5
DESC: Nuclear Weapon Effects structures field fortifications L1
DESC: EXPERIMENTAL
DESC: Cross Sections gamma L5 SOIL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
EFFT: NEUTRON ; GAMMA
REPN: OSWD 60 2

SHOT: ABLE (R) ; BAKER 1 (R) ; BAKER 2 (R) ; EASY (R) ; FOX (R) ; BAKER
(BJ) ; CHARLIE (BJ) ; DOG (BJ) ; ITEM ; SUGAR ; GRABLE ; TESLA ; ESS
; POST ; MET ; APPLE II ; PRISCILLA ; HAMILTON ; HUMBOLDT
TSHO: LOW-ALT
SUJO: 1-710-000 ; 3-140-000 ; 3-312-100 ; 9-830-000
TEMP: A7062
TITL: PROTECTION OFFERED BY FOXHOLES TO NUCLEAR RADIATION (U), 67 P.,
(SRD)

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19858
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copy: 1 id: 52670-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19861
ABS: Analysis has been made of the hazard from airborne plutonium from
weapon accidents.
AUTH: MERRITT M.L. ; COWAN M. ; REED J.W. ; SHREVE J.D.
CLSS: SRD
CORP: SANDIA CORPORATION (ALBUQUERQUE, NM.)
DATE: 5907
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 DOGS
DESC: Nuclear weapon safety radiological L1
REPN: SC 4326 (TR)
SHOT: PROJECT 57
SOCE: ██████████
SUJO: 3-312-220 ; 4-838-100
TEMP: A7199
TITL: AIRBORNE PLUTONIUM FROM WEAPON ACCIDENTS (U), 33 P., (SRD)
TNFF: 8859

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INUM: 20090
ADNO: 284191
AUTH: HALLMARK W.C.
CLSS: U
CONN: AF 33 (616) 7250
CORP: CHANCE VOUGHT CORP. (DALLAS, TX.)
DATE: 6205
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
DESC: test instruments test hardware acceleration measurement L1
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
MAGNETOSTRUCTIVE DELAY LINE MEMORY MAGNETIC DRUM

DESC: test instruments test hardware pressure stress L1 PRESSURE
TRANSDUCER
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
PULSE AMPLIFIER
DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines
non-missile motors L1 SYNCHRO
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 BLOCKING OSCILLATOR IF STRIP FLIP FLOPS CATHODE FOLLOWERS
ENCODER VOLTAGE DETECTOR POWER CONTRACTOR
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 KLYSTRONS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MIXER DIODES GA AS DIODES SE
RECTIFIER
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CERAMIC POTENTIOMETERS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
REPN: ASD TR 62 550
SUJO: 3-132-220 ; 3-212-000 ; 3-213-000 ; 3-219-000 ; 3-221-000 ;
3-222-000 ; 3-225-000 ; 3-229-000 ; 3-233-000 ; 4-311-000 ;
4-314-000

TITL: RADIATION EFFECTS STUDY FOR TERCOM (U), CA. 300 P., (U)
TREE: 300

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created: 12/27/1991 type: REPORT permanent
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INUM: 20134
AUTH: KESTER J.E.
CLSS: U
CONN: AF 33(616) 7017
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE
DATE: 6107
DESC: THEORY
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5
DESC: Radiation Transport thermal L1
REPN: ASD TN 61 86
SUJO: 1-210-000 ; 9-610-000
TITL: ON THE UNATTENUATED THERMAL RADIATION FROM NEAR SEA LEVEL NUCLEAR
EXPLOSIONS (U), 11 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20196
AUTH: PETERSON J.D. ; BENNETT W.P.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6101
DESC: Nuclear Weapon Effects materials not systems associated L1 ROCK
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: EXPERIMENTAL
EFFT: THERMAL
REPN: UCRL 6251
SHOT: NEPTUNE
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 3-240-000
TITL: RADIATION AND TEMPERATURE MEASUREMENTS OF THE NEPTUNE EVENT (U), 50
P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20247
CLSS: SRD CNWDI
CORP: ARMY COMMAND, CONTINENTAL (FT. BLISS, TX.)
DATE: 6010
DESC: SUMMARY
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
EFFT: NEUTRON
REPN: OSWD 59 4
SOCE: MK-5 ; MK-6 ; MK-7 ; MK-12 ; MK-40 ; MK-19 ; MK-33 ; MK-31 ; XW-45 ;
XW-30
SUJO: 3-161-100
TEMP: A8155
TITL: RADIATION EFFECTS OF ONE NUCLEAR EXPLOSION ON A SECOND NUCLEAR
WEAPON; VOL. 1 (U), 53 P., (SRD CNWDI)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20256
CLSS: U
CORP: FEDERAL RADIATION COUNCIL

DATE: 6109
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1 I-131
RU-226 SR-90 SR-89
DESC: SUMMARY
REPN: FRC 2
SUJO: 4-150-000
TITL: BACKGROUND MATERIAL FOR THE DEVELOPMENT OF RADIATION PROTECTION
STANDARDS (U), 19 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20266

ABS: This study was conducted to determine the amount and size of simulated dry fallout particles retained by various Quartermaster Corps clothing and packaging materials, after field decontamination procedures are applied. An attempt also was made to correlate qualitatively the amount retained with surface properties of the materials. Dry spherical, glass beads in selected size-distribution groups (14-270 mu, 14-100 mu, and 14-75 mu) were used to simulate fallout particles from a nuclear detonation. The amount remaining was measured gravimetrically and visually by optical microscope after application of three mechanical removal operations. It was found that materials having entrapping fibers retained the largest amount of beads. The amount was directly proportional to the number of open spaces and the number of loose fibers that acted as entrappers.

ABS: Scrim-back packaging material retained 0.3 g/ft² of particles which had an average diameter of 50 mu. Cotton sateen clothing and cotton poplin clothing had lesser amounts. All other materials tested retained zero or insignificant amounts. Mechanical entrapment of particles by the loose fibers appeared to be the principal mechanism of retention.

AUTH: KAWAHARA F.K.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6203
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: SIMULATION (GLASS BEADS) ; EXPERIMENTAL
REPN: NRDL TR 557
SUJO: 3-312-210
TITL: RESIDUAL CONTAMINATION OF QUARTERMASTER CORPS CLOTHING AND PACKAGING
MATERIALS; RETENTION OF SIMULATED DRY FALLOUT PARTICLES (U), 29 P.,
(U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20272
AUTH: JOHNSON E.R.
CLSS: U
CONN: DA 36 039 SC 89148
CORP: STEVENS INSTITUTE OF TECHNOLOGY (HOBOKEN, N.J.)
DATE: 6200
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TUBES
DESC: BIBLIOGRAPHY
REPN: SIT 89148 FR
SUJO: 3-229-000
TITL: LITERATURE STUDY OF RADIATION EFFECTS ON ELECTRON DEVICES;
SEMIANNUAL REPORT NO. 1, 1 DECEMBER 1961 THROUGH 1 JUNE 1962 (U), 22
P., (U)
TREE: 305

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created: 12/27/1991 type: REPORT permanent
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INUM: 20279
AUTH: DUBININ N.P.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6100
DESC: Nuclear Weapon Effects on plants ionizing radiation prompt L5
SENSITIVITY OF CROPS TO GAMMA
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
EFFT: GAMMA
REPN: AEC TR 5376
SUJO: 3-312-000 ; 3-332-100
TITL: PROBLEMS OF RADIATION GENETICS (U), 511 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20303
AUTH: SHVEDOV V.P.
CLSS: U

CORP: ATOMIC ENERGY COMMISSION
DATE: 5900
DESC: Nuclear Weapon Effects supply food water L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: SUMMARY
DESC: test instruments nuclear radiation fallout debris sampling
collectors L5
DESC: test instruments nuclear radiation gamma L5
REPN: AEC TR 4599
SUJO: 2-223-100 ; 2-225-100 ; 3-171-000 ; 4-341-000 ; 4-345-000
TITL: EVALUATION OF THE CONTAMINATION OF THE BIOSPHERE BY PRODUCTS OF
NUCLEAR TESTS (U), 154 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20304
AUTH: NISHIWAKI Y.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 5900
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L5
DESC: THEORY
EFFT: GAMMA
REPN: AEC TR 4463
SUJO: 2-225-100 ; 3-312-210 ; 3-540-000
TITL: ON THE METHOD OF ESTIMATION OF THE POPULATION DOSE, POPULATION, AND
SURFACE AREA COVERED BY THE DIFFUSION OF RADIOACTIVE CLOUDS (U), 23
P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20305
ABS: It is essential to know the degree of radioactivity of the external
environment. The solution of this problem involves the determination
of small concentrations of radioactive substances in various
objects. Such determinations possess a number of specific features
and require special methods of investigation. This monograph
presents in detail the sampling methods, radio-chemical,

physicochemical, and physical methods of determination, identification, and measurement of the activity both of total fission products, and of individual isotopes. Then the problems of the composition of artificial radioactive substances found in the external environment, their distribution, global fallout, and migration are discussed.

ABS: Data are also cited on a dosimetric estimation of the radioactivity of the external environment, which depends on the fission products of heavy nuclei that fall out from the atmosphere.

AUTH: SHVEDOV V.P. ; SHIROKOV S.I.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION

DATE: 6200

DESC: test instruments nuclear radiation fallout debris sampling
collectors L5

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L5

DESC: Nuclear Warfare Postattack Recovery USSR L1

DESC: SUMMARY

DESC: Nuclear Weapon Environment Fallout isotope concentrations L5

REPN: AEC TR 6049

SUJO: 2-223-100 ; 3-312-220 ; 3-449-200 ; 4-345-000

TITL: RADIOACTIVE CONTAMINATION OF THE EXTERNAL ENVIRONMENT (U), 297 P.,
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20314

ADNO: 265925

AUTH: CURCIO J.A. ; KNESTRICK G.L. ; COSDEN T.H. ; DRUMMETER L.F.

CLSS: U

CORP: NAVAL RESEARCH LAB. (WASH., D.C.)

DATE: 6110

DESC: Radiation Transport visible L1

DESC: SUMMARY

REPN: NRL R 5676

SUJO: 9-630-000

TITL: TRANSMISSION OF LIGHT SIGNALS BEYOND THE HORIZON (U), 24 P., (U)

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INUM: 20325

ABS: In the event of a nuclear attack, the presence of radioactive fallout could overshadow the more immediate weapon effects. Because of its far-reaching and long-lived characteristics, fallout from a single megaton-range detonation could make thousands of square miles inaccessible for extended periods of time. The resultant loss of the use of affected but unprotected installations together with their personnel will be, in many cases, militarily unacceptable. Thus, a means is needed for saving those important, manned facilities which escape the damaging effects of blast and heat but are caught within the fallout pattern. A modified form of protective construction is offered as a defense against fallout and its effects. To derive the greatest protective benefits, this concept must be included as an integral part of a radiological defense system.

ABS: By itself, radiologically protective construction is implemented by satisfying one or more of the following objectives: 1. Improving the inherent shelter effectiveness of structures, 2. Minimizing the deposition and retention of fallout, 3. Facilitating the removal of fallout. To this end, a number of protective principles are presented which can be either incorporated into the design of new buildings or applied to existing buildings.

AUTH: OWEN W.L.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6201

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Civil Defense shelters L1

DESC: Nuclear Warfare Postattack Recovery civilians population L1

DESC: SUMMARY

REPN: NRDL 467

SUJO: 3-442-000 ; 3-448-900 ; 3-474-000

TITL: RADIOLOGICAL PROTECTIVE CONSTRUCTION; PRINCIPLES FOR THE PROTECTION OF FACILITIES AND THEIR INHABITANTS AGAINST FALLOUT (U), 150 P., (U)

TNFF: 5602

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created: 12/27/1991 type: REPORT permanent

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INUM: 20345

ABS: Potential hazards to military personnel due to residual radiation from fall-out are considered. Several theories -the relation between genetic effects and the form of radia-amounts of radiation resulting from the atomic explosions This paper was previously abstracted from the original language and appears in NSA, Vol. 13, as abstract No. ACCIDENTS; BLAIR MODEL; CONTAMINATION; FALLOUT; IRRADIATION; MAN; PERSONNEL; RADIATION DOSES; RADIATION INJURIES; RADIOBIOLOGY; RECOVERY; SHELTERS; SHIELDING

AUTH: SHAPIRO E.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6005
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
EFFT: GAMMA
REPN: NRDL TR 421
SUJO: 3-312-210
TITL: OPERATIONAL SIGNIFICANCE OF BIOLOGICAL RECOVERY FROM CHRONIC
IRRADIATION--A COMPARISON OF SEVERAL RECOVERY THEORIES (U), 46 P.,
(U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20351
AUTH: PIONTKOVSKOGO I.A.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6100
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AEC TR 5553
SUJO: 3-312-100 ; 3-312-210
TITL: EFFECTS OF IONIZING RADIATION ON THE FUNCTIONS OF THE HIGHER NERVOUS
SYSTEM OF PROGENY (U), 222 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20355
AUTH: FUNSHTEIN L.V.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6100
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
EFFT: GAMMA
REPN: AEC TR 5630
SUJO: 3-312-000 ; 3-312-220

TITL: ATLAS ON THE PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN
EXPERIMENT (U), 220 P., (U)

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INUM: 20356
AUTH: IVANOV A.E.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6100
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: SUMMARY
REPN: AEC TR 5500
SUJO: 3-312-220

TITL: PATHOANATOMICAL RADIATION-INDUCED CHANGES IN LUNGS (U), 119 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20555
AUTH: STROPE W.E. ; PORTEOUS L.G. ; GREIG A.L.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 5910

DESC: Civil Defense shelters L1
DESC: Civil Defense economic considerations cost analysis L1
DESC: SUMMARY

REPN: NRDL TR 366
SUJO: 3-474-000 ; 3-478-000

TITL: SPECIFICATIONS AND COSTS OF A STANDARDIZED SERIES OF FALLOUT
SHELTERS (U), CA. 150 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20560
CLSS: U

CORP: ARMY CORPS OF ENGINEERS
DATE: 6101
DESC: Nuclear Weapon Effects structures aboveground components L1
DESC: Civil Defense shelters L5
EFFT: GAMMA ; BETA
REPN: TM 5 855 2 ; EM 1110 345 461
SUJO: 3-251-100 ; 3-474-000
TITL: PROTECTION AGAINST CHEMICAL AND BIOLOGICAL AGENTS AND RADIOLOGICAL
FALLOUT (U), 72 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20573

ABS: Facilities escaping physical damage from a nuclear attack still may have to cope with hazardous amounts of fallout material. The survival of personnel and the resumption of vital missions could depend upon the timely removal of the fallout deposits. The safe performance of such a removal effort is possible only if a detailed radiological recovery plan exists before attack. Two closely similar experiments were conducted on the operational recovery of an artificially contaminated land target complex. In each case a suitable recovery plan was formulated and then executed. The results showed that, within prescribed dose limits, pre-attack planning of a radiological recovery operation is not only feasible but strongly recommended.

AUTH: OWEN W.L. ; SARTOR J.D.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6205

DESC: EXPERIMENTAL

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Nuclear Warfare Postattack Recovery cities L1

DESC: Nuclear Weapon Effects structures aboveground cities L5

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L5

EFFT: FALLOUT

REPN: NRDL TR 570

SUJO: 3-252-000 ; 3-443-000 ; 3-448-900 ; 4-242-000

TITL: RADIOLOGICAL RECOVERY OF LAND TARGET COMPONENTS--COMPLEX I AND
COMPLEX II (U), 220 P., (U)

TNFF: 6220

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created: 12/27/1991 type: REPORT permanent

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INUM: 20581
AUTH: FRY R.M.
CLSS: U
CORP: ATOMIC ENERGY RESEARCH ESTABLISHMENT (HARWELL, BERKSHIRE)
DATE: 5900
DESC: Nuclear Energy Power Nuclear Materials waste disposal L5
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
LA: UK
REPN: AERE HP/R 2788
SUJO: 3-312-220 ; 3-530-000
TITL: BIOLOGICAL HAZARD OF TRITIUM WITH SPECIAL REFERENCE TO DIDO (U), 25
P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20590
AUTH: TOMNOVEC F.M. ; MATHER R.L.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6004
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
IRRADIATED NTS SOIL
DESC: SIMULATION (CYCLOTRON) ; EXPERIMENTAL
DESC: Cross Sections neutron L1 SOIL
REPN: NRDL TR 413
SUJO: 2-223-200 ; 9-820-000
TITL: INFLUENCE OF SOIL COMPOSITION ON THE THERMAL NEUTRON COMPONENT OF
LARGE SCALE NEUTRON FIELDS (U), 39 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20662
AUTH: TIUNOV L.A. ; VASIL'EV G.A. ; PARIBOK V.P.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6100
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
CHEMOPROTECTION

DESC: SUMMARY
REPN: AEC TR 5241
SUJO: 3-312-000
TITL: RADIATION PROTECTION HANDBOOK (U), 254 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20722
AUTH: ZIGMAN P. ; MACKIN J.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6002
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: NRDL TR 400
SUJO: 2-223-100
TITL: EARLY TIME DECAY OF FISSION PRODUCT MIXTURES. II, GAMMA ENERGY
RELEASE AND IONIZATION RATES FOLLOWING THERMAL NEUTRON FISSION OF U
235 (U), 13 P., (U)

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INUM: 20731
CLSS: U
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)
DATE: 5903
DESC: DOSIMETERS DOSE-RATE METERS COUNTERS CALIBRATION TEST EQUIPMENT ;
EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1
DESC: test instruments biomedical L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
SUJO: 4-150-000 ; 4-346-000 ; 4-351-000
TITL: PRINCIPAL TECHNICAL CHARACTERISTICS OF ARMY RADIAC EQUIPMENT (U), 74
P., (U)

TREE: 651

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INUM: 20775
AUTH: LESHCHINSKII N.I.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6200
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety
handling transport safeguards L1 RUSSIAN RULES
DESC: SUMMARY
REPN: AEC TR 6315
SUJO: 3-312-000 ; 3-520-000
TITL: TRANSPORTATION OF RADIOACTIVE MATERIALS (U), 240 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20793
AUTH: ALLEN F.J. ; FUTTERER A.T.
CLSS: U
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 6207
DESC: Cross Sections neutron L1 POLYETHYLENE
DESC: TABULAR
REPN: BRL MR 1424
SUJO: 9-820-000
TITL: LIGHTWEIGHT, RADIOLOGICAL SHIELDING MATERIALS FOR ARMORED VEHICLES
(U), 28 P., (U)
TREE: 412

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created: 12/27/1991 type: REPORT permanent

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INUM: 20958
AUTH: MALIK J.
CLSS: SRD CNWDI
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 6208
DESC: Nuclear Weapon Environment Initial Gamma L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear weapon test yield L1
EMPF: 240

REPN: LA 1620
TSHO: SURFACE ; LOW-ALT
SUJO: 1-700-000 ; 4-835-000
TEMP: A8481
TITL: SUMMARY OF INFORMATION ON GAMMA RADIATION FROM ATOMIC WEAPONS (U),
240 P., (SRD CNWDI)

TREE: 910

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 21187

AUTH: BOTH E.

CLSS: U

CORP: ARMY ELECTRONICS TECHNOLOGY AND DEVICES LAB. (FT. MONMOUTH, N.J.)

DATE: 6000

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITOR

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-229-000

TITL: THERMAL AND RADIATION POLARIZATION IN ORGANIC DIELECTRIC FILMS (U),
7 P., (U)

TREE: 370

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INUM: 21196

AUTH: IKRATH K.

CLSS: U

CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

EFFT: TREE

SUJO: 3-231-000

TITL: NUCLEAR PULSE EFFECTS IN CABLES; A THEORETICAL MODEL FOR TRANSIENT
RADIATION EFFECTS IN WIRES AND CABLES (U), CA. 40 P., (U)

TREE: 390

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created: 12/27/1991 type: REPORT permanent
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INUM: 21198
CLSS: U
CORP: BOEING CO. (SEATTLE, WA.)
DATE: 6200
DESC: Nuclear Weapon Effects materials metals alloys L1 CU U AL PB
DESC: Radiation Transport x-ray L1
DESC: SIMULATION (REACTOR FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI GE
DESC: Nuclear Weapon Effects materials carbon L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: Nuclear Weapon Effects materials plastics resins L1 POLYETHYLENE
LUCITE
DESC: Radiation Transport neutron L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODE SCR
EFFT: TREE
REPN: D2 9878 3
SUJO: 3-220-200 ; 3-221-000 ; 3-229-000 ; 3-231-000 ; 3-243-000 ;
3-244-000 ; 3-248-000 ; 9-640-000 ; 9-650-000
TITL: CONTRIBUTIONS TO THE STATE-OF-THE-ART OF TRANSIENT RADIATION EFFECTS
IN ELECTRONIC PARTS AND MATERIALS; VOL. 2 (U), 255 P., (U)
TREE: 310 ; 370 ; 200

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22164
CLSS: U
CONN: AF 33 616 5464
CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)
DATE: 5902
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects electrical mechanical power generation L1
TRANSFORMERS
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials fuels lubricants L1 P 264
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS
DIELECTRICS
DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines

non-missile motors L1

EFFT: NETURON ; GAMMA ; TREE

REPN: SCI REPT. 4

SUJO: 3-225-000 ; 3-229-000 ; 3-231-000 ; 3-232-000 ; 3-233-000 ;
3-238-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,
SCIENTIFIC REPORT NO. 4 (U), 270 P., (U)

TREE: 370 ; 380 ; 385 ; 390 ; 389

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22165

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 5905

DESC: Nuclear Weapon Effects electrical mechanical power generation L5

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: TABULAR

REPN: SCI REPT. 5

SUJO: 3-232-000 ; 4-170-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,
SCIENTIFIC REPORT NO. 5 (U), 37 P., (U)

TREE: 389 ; 642

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22166

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 5908

DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines

non-missile motors L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: SCI REPT. 6

SUJO: 3-229-000 ; 3-233-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,

SCIENTIFIC REPORT NO. 6 (U), 75 P., (U)

TREE: 389 ; 380 ; 370

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created: 12/27/1991 type: REPORT permanent
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INUM: 22167

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 6002

DESC: Nuclear Weapon Effects electronic piecparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical power generation L1

DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines
non-missile motors L1

EFFT: TREE

REPN: SCI REPT. 8

SUJO: 3-229-000 ; 3-232-000 ; 3-233-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,
SCIENTIFIC REPORT NO. 8 (U), 82 P., (U)

TREE: 389 ; 380 ; 370

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22354

AUTH: LANDRY J.W.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)

DATE: 6007

DESC: test instruments nuclear radiation fallout debris sampling
collectors L1

DESC: MICE PROGRAM ; EXPERIMENTAL

REPN: ORNL 2881

SHOT: TAMALPAIS

TSHO: UG-CONTAINED

SUJO: 4-345-000

TITL: OAK RIDGE NATIONAL LABORATORY SAMPLER FOR THE TAMALPAIS UNDERGROUND
NUCLEAR DETONATION EXPERIMENT (U), 20 P., (U)

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22354

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copy: 1 id: 54835-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22407
AUTH: SCHULERT A.R. ; KULP J.L. ; HIRSHMAN R.S. ; HODGES E.J. ; BARTELTSEN
K. ; MCFADDEN H. ; SOLAZZI M. ; MARTIN E.
CLSS: U
CONN: AT (30 1) 1656
CORP: COLUMBIA UNIVERSITY (PALISADES, NY)
DATE: 6010
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: EXPERIMENTAL
REPN: NYO 9466
SUJO: 3-312-220 ; 3-332-220
TITL: DISPOSITION OF NUCLEAR FALLOUT DEBRIS; ANNUAL REPORT (U), 78 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22413
AUTH: BATZEL R.E.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 5906
DESC: THEORY
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Environment fallout fractionation L5
REPN: UCRL 5623
TSHO: UG-VENTED ; UG-CONTAINED
SUJO: 2-223-410 ; 2-223-500
TITL: RADIOACTIVITY ASSOCIATED WITH UNDERGROUND NUCLEAR EXPLOSIONS (U), 14
P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22427
AUTH: BENNETT W.P. ; ANDERSON A.L. ; SMITH B.L.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (MERCURY, NV)
DATE: 6012
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear weapon test yield L9
DESC: EXPERIMENTAL
REPN: UCRL 6240
SHOT: LOGAN
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-629-000 ; 4-835-000
TITL: CAVITY DEFINITION, RADIATION AND TEMPERATURE DISTRIBUTIONS RESULTING
FROM THE LOGAN EVENT (U), 55 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22440
AUTH: PFAFF E.R.
CLSS: U
CONN: AF 33 616 5464
CORP: ADMIRAL CORP. (CHICAGO, IL)
DATE: 5911
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical power generation L1
TRANSFORMERS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: ADM ENREC PH 2 SR 7
SUJO: 3-221-000 ; 3-231-000 ; 3-232-000
TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2 (U),
126 P., (U)
TREE: 389 ; 310 ; 390

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22516

AUTH: EASLEY J.W.
CLSS: U
CORP: SANDIA CORP.
DATE: 6207
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SCR 532
SUJO: 3-221-000
TITL: RADIATION DAMAGE TO SEMICONDUCTOR DEVICES (U), 36 P., (U)
TREE: 310

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copy: 1 id: 55039-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22568
AUTH: BAUMSTARK J. ; TORGESON L. ; STERN S. ; SCHEKMAN A. ; ZELLER W.
CLSS: U
CONN: AT (11 1) 401
CORP: GENERAL MILLS, INC. (MINNEAPOLIS, MN)
DATE: 5905
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
DESC: EXPERIMENTAL
SUJO: 4-345-000
TITL: UPPER ATMOSPHERE MONITORING PROGRAM; SIXTH PROGRESS REPORT (U), 32
P., (U)

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copy: 1 id: 55089-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22599
ABS: This report describes present and future systems which utilize nuclear power? points out anticipated problems in the testing and operational employment phases of these systems? discusses the effects of recovery environment such as water, land, terrain features, atmosphere, and space on nuclear systems? outlines present responsibilities and capabilities of Air Force agencies with regard to explosive ordnance disposal (EOD), search, rescue, and recovery? and discusses concepts of present methods of recovering radioactive material and their potential future applications. It is concluded that radioactive material recovery concepts must be formulated for each individual system and that detailed information is required in

many associated areas before these concepts can be fully exploited.

ABS: These areas include fission product dispersion phenomena, nuclear and/or solar radiation definition, countermeasures, shielding requirements, materials, search and recovery techniques, instrumentation, remote handling equipment capabilities, and human factors.

AUTH: WONG E.D.
CLSS: SRD
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, NM)
DATE: 6201
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: Nuclear weapon safety radiological L5
DESC: BIBLIOGRAPHY SURVEY
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety handling transport safeguards L1
REPN: AFSWC TDR 61 73
SUJO: 3-520-000 ; 3-540-000 ; 4-838-100
TEMP: A7989
TITL: RADIOACTIVE MATERIAL RECOVERY CONCEPTS (U), 164 P., (SRD)
TNFF: 8859

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created: 12/27/1991 type: REPORT permanent

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INUM: 22635
CLSS: U
CORP: DEPT. OF HEALTH, EDUCATION AND WELFARE (WASH., DC)
DATE: 6101
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic internal L1
DESC: EXPERIMENTAL
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake L1
REPN: PB 161371 10
SUJO: 3-312-220 ; 3-332-220 ; 3-540-000
TITL: RADIOLOGICAL HEALTH DATA; VOL. 2, NO. 1; QUARTERLY REPORT (U), 60 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22636
CLSS: U

CORP: DEPT. OF HEALTH, EDUCATION AND WELFARE (WASH., DC)
DATE: 6007
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
REPN: PB 161371 4
SUJO: 3-312-220 ; 3-332-220 ; 3-540-000
TITL: RADIOLOGICAL HEALTH DATA; VOL. 1, NO. 4, QUARTERLY REPORT (U), 112
P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 22658
AUTH: LAUMETS E. ; KSANDA C.F.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 5903
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Cross Sections gamma L1 SHIP SHIELDING STEEL
REPN: NRDL TR 308
TSHO: SURFACE
SUJO: 2-223-200 ; 9-830-000
TEMP: A8115
TITL: TECHNIQUE FOR ESTIMATING GAMMA-DOSE-RATE SPECTRA FROM FIELD
ATTENUATION MEASUREMENTS AND COMPARISON OF RESULTS FOR OPERATION
CASTLE (U), 123 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 22730
ABS: The nature of fallout from nuclear detonations on or in seawater is
described in qualitative terms in order to interrelate the
anticipated effects of weapon type, depth of burst, and weapon yield
with respect to the contaminating potential of such detonations to
ships and on the effectiveness of shipboard manual decontamination
methods. Data on the decontamination of surfaces contaminated by
fallout from Castle were analyzed? the analysis shows that the
results are in reasonable agreement when the amount of contamination

lost due to rain prior to application of the methods is accounted for. Data requirements for conducting field-test decontamination investigations are given, along with methods for interpreting decontamination data for seawater fallout.

AUTH: MILLER C.F.
CLSS: SFRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 5905
DESC: EXPERIMENTAL
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NRDL TR 329
TSHO: UW
SUJO: 3-448-900
TEMP: A8124
TITL: DECONTAMINATION OF SURFACES CONTAMINATED WITH FALLOUT FROM NUCLEAR
DETONATIONS AT SEA (U), 52 P., (SFRD)
TNFF: 6220

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created: 12/27/1991 type: REPORT permanent

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INUM: 22759
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (WASH., DC)
DATE: 6202
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: SUMMARY
REPN: TID 7632 BK. 1
SUJO: 4-140-000
TITL: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE HELD IN GERMANTOWN, MARYLAND, NOVEMBER 15-17, 1961; VOL.
1 (U), 270 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22759-004
AUTH: LARSON K.H. ; HAWTHORNE H.A. ; OLAFSON J.H.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA AT LOS ANGELES (LOS ANGELES, CA)
DATE: 6202
DESC: Nuclear Weapon Environment fallout fractionation L5
DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
SHOT: FIZEAU ; GALILEO ; BOLTZMANN ; SHASTA ; DIABLO ; WHITNEY ; SMOKY ;
WILSON ; NEWTON ; PRISCILLA ; HOOD
TSHO: LOW-ALT
SUJO: 2-222-300 ; 2-223-100 ; 2-223-500 ; 2-225-100 ; 2-225-200 ;
3-312-220 ; 3-332-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 1
TITL: NEVADA TEST SITE FALLOUT; SOME CHARACTERISTICS, ITS APPARENT
ENVIRONMENTAL EQUILIBRIUM AND BIOLOGICAL AVAILABILITY (U), 21 P.,
(U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22759-025

ABS: A description is presented of a combination of A. D. Anderson's
Dynamic Fallout Model (NRDL-D Model) with C. F. Miller's
thermodynamic model of fractionation which is used to account for
fractionation in fall-out predictions. Weaknesses of the method are
pointed out. Data required for testing the model, both from
laboratory experiments and nuclear detonations, and for achieving
more meaningful documentation of future nuclear bursts, are
discussed. (auth) DISTRIBUTION; FALLOUT; FISSION; FRACTIONATION;
LABORATORY EQUIPMENT; NUCLEAR EXPLOSIONS; TESTING; THERMODYNAMICS

AUTH: FREILING E.C.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6202

DESC: Nuclear Weapon Environment fallout fractionation L1 DESCRIPTION OF
MILLER MODEL

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5

DESC: Nuclear Weapon Environment Fallout Formation mechanics L1

DESC: THEORY SUMMARY

DESC: Nuclear Weapon Environment fallout transport L1 NRDL-D MODEL

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

SUJO: 1-210-000 ; 2-110-000 ; 2-221-000 ; 2-223-500 ; 2-224-200 ;
2-225-100

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 1

TITL: FRACTIONATION IN SURFACE BURSTS (U), 22 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22759-047

AUTH: FREILING E.C.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6202

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Environment Fallout Formation mechanics L1

DESC: Nuclear Weapon Environment fallout fractionation L1

DESC: THOERY

TSHO: LOW-ALT

SUJO: 2-221-000 ; 2-223-100 ; 2-223-500

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 1

TITL: PARTICLE FORMATION AND FRACTIONATION IN AIR BURSTS (U), 13 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22759-122

ABS: Limitations in the construction of fall-out models imposed by the scarcity of available fall-out data are discussed. The effects of wind shear and speed and shielding factors on the accuracy of fall-out predictions are considered. It is pointed out that conclusions drawn from nuclear test data must be applied with caution to burst conditions likely to be encountered in a nuclear attack. Fallout predictions based on several models currently in use are compared. It is shown that the various models give very different results. It is pointed out that wind conditions can drastically affect the dose-distance relationship as well as the orientation and shape of the pattern. These differences may be quite important in the critical range from about 200 to 700 r where relatively small changes in dose result in large changes in the fatality estimates.

ABS: On a national scale, the additive effects of hundreds of nuclear bursts during a nuclear attack would further complicate the accuracy of fall-out predictions. (C.H.) CONFIGURATION; DISTRIBUTION; EFFICIENCY; ENVIRONMENT; FALLOUT; NUCLEAR EXPLOSIONS; RADIATION DOSES; RADIATION EFFECTS; SHIELDING; STANDARDS; USES; VELOCITY; WIND

AUTH: FERBER G.J. ; HEFFTER J.L.

CLSS: U
CORP: U.S. WEATHER BUREAU (WASH., DC)
DATE: 6202
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
MODEL COMPARISON
DESC: SUMMARY
SUJO: 2-225-100 ; 2-225-200
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 1
TITL: COMPARISON OF FALLOUT MODEL PREDICTIONS WITH A CONSIDERATION OF WIND
EFFECTS (U), 14 P., (U)

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22759-122

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22759-223

ABS: Brief summaries are presented from a series of geochemical studies on stratospheric fall-out. A time interval of 10⁸ years between the cessation of nucleosynthesis and the formation of the earth was calculated, assuming that the extinct Pu²⁴⁴ was mainly responsible for the production of excess xenon isotopes in the earth's atmosphere. Other sources of atmospheric xenon are discussed. Experimental results support the Brewer-Dobson model of global circulation of air masses. A pronounced peak of fall-out rate during the spring months was attributed to an increase in the rate of material transfer from the stratosphere to the troposphere, caused by the sinking of cold air masses formed above the winter pole during the late winter months.

ABS: The effects of seasonal and global movements of stratospheric air masses on spring peaks of Sr⁹⁰ fall-out and the stratospheric residence time of Sr⁹⁰ and Ce¹⁴⁴ are discussed. Factors contributing to a sharp increase in the Sr⁹⁰/Sr⁹⁰ ratio in rain at Fayetteville, Arkansas, after the French nuclear detonations of Feb. and April 1960 are discussed. (C.H.) AGE ESTIMATION; AIR; ARKANSAS; ATMOSPHERE; CERIUM 144; EARTH; EFFICIENCY; FALLOUT; GEOCHEMISTRY; GEOPHYSICS; MASS; MATHEMATICS; METEOROLOGY; NUCLEAR EXPLOSIONS; PLUTONIUM 244; QUANTITY RATIO; RADIOISOTOPES; RAIN; SEASONS; STRATOSPHERE; STRONTIUM 89; STRONTIUM 90; XENON

AUTH: KURODA P.K. ; HODGES H.L. ; MENON M.P. ; MO T. ; NIX J. ; FRY L.M. ;
MOORE H.E.

CLSS: U
CORP: UNIVERSITY OF ARKANSAS (FAYETTEVILLE, AR)
DATE: 6202
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment radiation decay beta decay L5
SUJO: 2-223-100 ; 2-223-430
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A

CONFERENCE, VOL. 1

TITL: GEOCHEMICAL STUDIES ON THE STRATOSPHERIC FALLOUT (U), 19 P., (U)

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INUM: 22760-271

AUTH: COLLINS W.R. JR.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK, NY)

DATE: 6202

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: SUMMARY

SUJO: 2-223-100

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2

TITL: MEASURED AND PREDICTED CONTRIBUTIONS FROM FALLOUT TO ENVIRONMENTAL
RADIATION LEVELS (U), 15 P., (U)

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INUM: 22760-318

ABS: The impact of radioactivity on the biological or ecological systems that comprise the biosphere is discussed from the standpoint of effects on man's well being and economy. Major pathways of transfer of mineral nutrients and radioisotopes between compartments in a forest ecosystem are outlined. It is pointed out that cycling of nuclides in complicated ecological systems involves both rate processes and transfer mechanisms. Data are summarized from a number of studies on ecological factors that affect the initial distribution of radioactive contamination in the biosphere, its subsequent circulation and accumulation, its ultimate fate, effects of radiation from radionuclides on natural ecosystems, and transfer of radionuclides through food chains to man.

ABS: It is stressed that the understanding of the biogeochemistry of natural major and minor elements in ecosystems is closely related to the interpretation of the movement of radioactive contaminants through these systems. The possibility of such contamination arising from radioactive waste disposal, weapons fall-out, or nuclear war, leads to the need for mathematical models of conditions that could predict the extent and time scale of such contamination. (C.H.)
BIOCHEMISTRY; BIOLOGY; CONTAMINATION; DIFFUSION; DISTRIBUTION;
EARTH; ECONOMICS; ELEMENTS; ENVIRONMENT; FALLOUT; FOOD; MAN;

MATHEMATICS; NUCLEAR EXPLOSIONS; QUANTITY RATIO; RADIATION EFFECTS;
RADIOACTIVITY; RADIOISOTOPES; STANDARDS; WASTE DISPOSAL

AUTH: AUERBACH S.I.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)
DATE: 6202
DESC: Nuclear Weapon Effects ecological L1
DESC: SUMMARY
SUJO: 3-341-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: SUMMARY OF SESSION, FIRST NATIONAL SYMPOSIUM ON RADIOECOLOGY 1961,
CYCLING IN THE TERRESTRIAL ENVIRONMENT (U), 30 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-376
AUTH: GRUMMITT W.E.
CLSS: U
CORP: ATOMIC ENERGY OF CANADA LIMITED (CHALK RIVER, ONTARIO, CANADA)
DATE: 6202
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
SUJO: 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: STRONTIUM AND BARIUM IN BONE AND DIET (U), 5 P., (U)

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INUM: 22760-381
AUTH: KNAPP H.A.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (WASH., DC)
DATE: 6202
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects supply food water L5
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1
SUJO: 3-171-000 ; 3-312-220 ; 3-332-200

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2

TITL: EFFECT OF DEPOSITION RATE AND CUMULATIVE SOIL LEVEL ON THE
CONCENTRATION OF STRONTIUM-90 IN U.S. MILK AND FOOD SUPPLIES (U), 24
P., (U)

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INUM: 22760-405
AUTH: RIVERA J.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK, NY)
DATE: 6202
DESC: Nuclear Weapon Effects supply food water L5
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

SUJO: 2-223-100 ; 3-171-000 ; 3-312-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2

TITL: STRONTIUM-90 IN NEW YORK CITY AND SAN FRANCISCO DIETS RESULTING FROM
THE OCTOBER 1961 SOVIET TEST SERIES (U), 10 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-415
AUTH: BIRD P.M. ; MAR P.G. ; JOSIE G.H. ; HOBSON F.E.
CLSS: U
CORP: DEPARTMENT OF NATIONAL HEALTH AND WELFARE (OTTAWA, CANADA)
DATE: 6202
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: Nuclear Weapon Effects supply food water L1

DESC: SUMMARY

SUJO: 3-171-000 ; 3-312-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2

TITL: INVESTIGATION OF THE REPRESENTATIVENESS OF 'GRAB-SAMPLING?' IN A SR
90 DRIED MILK PROGRAM PRELIMINARY RESULTS (U), 10 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-425
AUTH: LOUTIT J.F.
CLSS: U
CORP: MEDICAL RESEARCH COUNCIL (HARWELL, ENGLAND)
DATE: 6202
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: SUMMARY
SUJO: 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: ACCRETION AND REPLACEMENT OF SKELETAL MINERAL DEDUCED FROM SURVEY IN
THE UNITED KINGDOM OF BONES FOR SR 90 (U), 1 P., (U)

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INUM: 22760-426
AUTH: COMAR C.L. ; WASSERMAN R.H. ; LENGEMANN F.W. ; THOMPSON J.C. JR.
CLSS: U
CORP: CORNELL UNIVERSITY (ITHACA, NY)
DATE: 6202
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1
DESC: Nuclear Weapon Effects supply food water L1
SUJO: 3-171-000 ; 3-312-220 ; 3-332-200
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: FALLOUT AND THE FOOD CHAIN; A STATUS REVIEW (U), 31 P., (U)

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INUM: 22760-457
AUTH: KULP J.L.

CLSS: U
CORP: COLUMBIA UNIVERSITY (PALISADES, NY)
DATE: 6202
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout transfer L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
SUJO: 2-224-300 ; 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: PREDICTION OF THE SR 90 CONCENTRATION IN THE WORLD POPULATION (U),
20 P., (U)

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INUM: 22760-477
AUTH: ANDERSON E.C. ; WARD G.M. ; HOLLAND J.Z. ; LANGHAM W.H.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, NM)
DATE: 6202
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects supply food water L1
SUJO: 3-171-000 ; 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A
CONFERENCE, VOL. 2
TITL: CESIUM 137 LEVELS IN UNITED STATES POWDERED MILK AND IN THE
POPULATION (U), 58 P., (U)

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INUM: 22819-30
AUTH: WOUTERS L.F. ; BOYRIE E.A. ; HYNE A. ; MCDONALD H.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 5905
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
EMPF: 251
SUJO: 2-311-000

SYMJ: PROCEEDINGS OF THE SECOND PLOWSHARE SYMPOSIUM, PT. 5
TITL: INTERACTION OF MICROWAVE RADIATION WITH IONIZED AIR (U), 14 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22845
AUTH: NORDYKE M.D.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Energy Peaceful Applications excavation L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: Nuclear Weapon Environment Ground Shock scaling L1
REPN: UCRL 6438 PT. 1
SUJO: 2-624-000 ; 2-625-000 ; 3-481-000
TITL: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM; PT. 1 (U), CA. 150 P., (U)

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INUM: 22845-E
AUTH: VAILE R.B. JR.
CLSS: U
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock scaling L1 PACIFIC CRATERS
AND WET SOIL
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: EXPERIMENTAL
SHOT: SUGAR ; UNCLE ; MIKE ; BRAVO ; MALE
TSHO: SURFACE ; WATER-SURFACE
SUJO: 2-624-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 1
TITL: PACIFIC CRATERS AND SCALING LAWS (U), 36 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 22845-F
AUTH: NORDYKE M.D.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
SHOT: SUGAR ; UNCLE ; ESS ; NEPTUNE
TSHO: UG-VENTED
SUJO: 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 1
TITL: NEVADA TEST SITE NUCLEAR CRATERS (U), 14 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 22845-G
AUTH: MURPHEY B.F.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 6110
DESC: SIMULATION (HE)
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L5 PARTICLE VELOCITY
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L5
STRESS
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
EFFECT OF MEDIUM
SHOT: SCOOTER ; STAGECOACH
TSHO: UG-VENTED
SUJO: 2-621-000 ; 2-623-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 1
TITL: EXPLOSION CRATERS IN DESERT ALLUVIUM (U), 13 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22845-H
AUTH: VORTMAN L.J.
CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 6110
DESC: SIMULATION (HE) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L5
DUST FROM DEEPLY BURIED CHARGES
DESC: Nuclear Weapon Environment Ground Shock scaling L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
SHOT: BUCKBOARD
TSHO: UG-VENTED
SUJO: 2-222-400 ; 2-624-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 1
TITL: HIGH-EXPLOSIVE CRATERS IN TUFF AND BASALT (U), 17 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22845-I
AUTH: VIOLET C.E.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock scaling L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
TSHO: UG-VENTED
SUJO: 2-624-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 1
TITL: GENERALIZED EMPIRICAL ANALYSIS OF CRATERING (U), 23 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846
AUTH: NORDYKE M.D.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
REPN: UCRL 6438 PT. 2
TITL: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM; PT. 2 (U), CA. 150 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-J
AUTH: MAENCHEN G. ; NUCKOLLS J.
CLSS: U
CCDE: UNEC ; TENSOR
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L5
TSHO: UG-CONTAINED
SUJO: 2-621-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 2
TITL: CALCULATIONS OF UNDERGROUND EXPLOSIONS (U), 6 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22846-K
AUTH: NORDYKE M.D.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
SHOT: SCOOTER ; NEPTUNE
TSHO: UG-VENTED
SUJO: 2-621-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 2
TITL: PRELIMINARY NOTES ON THE MECHANICS OF EXPLOSIVE CRATER FORMATION
(U), 27 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-L
AUTH: BRODE H.L. ; BJORK R.L.
CLSS: U
CORP: RAND CORP. (SANTA MONICA, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
PRESSURES
DESC: THEORY
TSHO: UG-VENTED
SUJO: 2-623-000 ; 2-625-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 2
TITL: CRATERING FROM A MEGATON SURFACE BURST (U), 43 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-O
AUTH: HESS W.N.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L1
DESC: EXPERIMENTAL
SHOT: SCOOTER
SUJO: 2-626-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 2
TITL: THROWOUT CALCULATIONS (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22846-P
AUTH: VAILE R.B. JR. ; SALMON V.
CLSS: U
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)
DATE: 6110
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L1
SHALLOW BURIED BURSTS MISSILES ARE LARGELY PAVEMENT AND WALLS OF
CONCRETE
SHOT: UNCLE
TSHO: UG-VENTED

SUJO: 2-626-000
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION
LABORATORY CRATERING SYMPOSIUM, PT. 2
TITL: EVALUATION OF MISSILE HAZARD, UNDERGROUND SHOT (U), 41 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22878
AUTH: KORANDA J.J. ; MARTIN J.R.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 5907
DESC: PRIMARILY ENVIRONMENTAL IN DISTRIBUTION OF TRITIUM FROM SEDAN EVENT
; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment fallout redistribution L1
REPN: UCRL 71867 ; CONF 690303 3
SHOT: SEDAN ; CABRIOLET
TSHO: UG-VENTED
SUJO: 2-223-100 ; 2-225-500 ; 3-312-200 ; 3-332-220
TITL: PERSISTENCE OF RADIONUCLIDES AT SITES OF NUCLEAR DETONATIONS (U), 50
P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23874
ABS: A general method for determining aircraft safety from the effects of
a nuclear explosion is presented. This method, which has evolved
from the work of several contributors over a period of time, has
been reanalyzed and condensed into one presentation. The weapon
effects considered are thermal radiation, gust, overpressure, and
nuclear radiation. Discussions of the basic assumptions involved in
the calculation method, as well as working curves and sample
problems, are included.
AUTH: BUCHLY W.D.
CLSS: SRD
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 5908
DESC: THEORY

DESC: Nuclear Weapon Effects flight systems airplanes structures L1
DESC: Nuclear Weapon Environment Airblast height-of-burst HOB L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
EFFT: THERMAL ; AIR-BLAST
REPN: SC 4187(TR)
SUJO: 1-210-000 ; 2-613-100 ; 3-111-100
TEMP: B1468
TITL: HANDBOOK FOR DETERMINING SAFE AIRCRAFT ESCAPE FROM A NUCLEAR
DETONATION (U), 98 P., (SRD)
TNFF: 5820

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created: 12/27/1991 type: REPORT permanent

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INUM: 23885
CLSS: U
CONN: AT (11 1) 745
CORP: ARMOUR RESEARCH FOUNDATION (CHICAGO, IL)
DATE: 6008
DESC: TABULAR
DESC: test instruments nuclear radiation gamma L1
DESC: test instruments x-ray effects L1
REPN: ARF 1152 12
SUJO: 4-330-000 ; 4-341-000
TITL: IMPROVED NUCLEAR MEASURING PRINCIPLE (U), 41 P., (U)
TREE: 653

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copy: 1 id: 56252-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23888
AUTH: MAHONEY J.J.
CLSS: U
CORP: ARMY CHEMICAL CORPS NUCLEAR DEFENSE LAB. (ARMY CHEMICAL CENTER, MD)
DATE: 6104
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures field fortifications L1 PERSONNEL
IN FOXHOLES
REPN: NDL TR 4
SUJO: 3-140-000 ; 3-313-100
TITL: CONTRIBUTION OF SCATTERED RADIATION TO IMMEDIATE THERMAL CASUALTIES
IN OPEN FOXHOLES (U), 42 P., (U)

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23888
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copy: 1 id: 56255-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23898
AUTH: DOWAN M. JR.
CLSS: U
CORP: SANDIA CORP.
DATE: 6104
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
DESC: THEORY
REPN: SCR 296
SUJO: 4-345-000
TITL: TECHNIQUE FOR OBTAINING PARTICLE ACTIVITY AND SIZE DISTRIBUTIONS
(U), 12 P., (U)

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23898
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copy: 1 id: 56265-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 24000
AUTH: SPIELBERG D.
CLSS: SRD
CONN: DA 30 069 ORD 2627
CORP: NUCLEAR DEVELOPMENT CORPORATION OF AMERICA (WHITE PLAINS, NY)
DATE: 5910
DESC: Cross Sections neutron L1
DESC: Cross Sections gamma L1
DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW
DESC: TABULAR
REPN: NDA 2117 1
SUJO: 3-151-000 ; 9-820-000 ; 9-830-000
TEMP: B1449
TITL: DESIGN AND ANALYSIS OF A CREW-COMPARTMENT SHIELD FOR A
RADIATION-RESISTANT COMBAT VEHICLE (U), 32 P., (SRD)
TREE: 411 ; 412

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24000
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copy: 1 id: 56339-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 24325
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 5905
DESC: Nuclear Weapon Environment Ground Shock spallation L1
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1
DESC: Nuclear Weapon Test site layout L1
DESC: Nuclear Weapon Environment fallout transfer L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: Nuclear Energy Peaceful Applications L1
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L1
REPN: UCRL 5675
SHOT: RAINIER ; LOGAN ; EVANS ; BLANCA
TSHO: UG-CONTAINED
SUJO: 2-224-300 ; 2-620-300 ; 2-621-000 ; 2-622-000 ; 2-627-000 ;
2-628-000 ; 2-629-000 ; 3-480-000 ; 4-855-000
TITL: PROCEEDINGS OF THE SECOND PLOWSHARE SYMPOSIUM, MAY 13-15, 1959, SAN
FRANCISCO, CA; PT. 1, PHENOMENOLOGY OF UNDERGROUND NUCLEAR
EXPLOSIONS (U), 164 P., (U)

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24325

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copy: 1 id: 56596-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24726
ABS: Established military bases and metropolitan areas contain within
and/or surrounding their boundaries large amounts of natural land
areas which are unpaved. Much of such areas will require reclamation
if radiologically contaminated as a result of nuclear weapon attack.
A series of tests were therefore conducted to determine the
influence of various soil-surface characteristics and repeated
method applications on the effectiveness of some basic land
reclamation methods. Four soil surfaces were tested: (1) a moist
surface with green grass, (2) a tilled moist surface, and (4) a dry
hard surface with withered vegetation. A synthetic fallout was
produced and dispersed over the test surfaces and the performances
in removing layers of soil of a scraper, motorized grader plus
scraper, and remote-control bulldozer were evaluated.
ABS: Soil surface characteristics, moisture content, and technique in the
application of the methods influenced the effectiveness of the
reclamation methods. Decontamination ratios of 1% or less were
obtained through one or more applications by the scraper and the

grader plus scraper methods. Based upon the efficiency with which a method could achieve any effectiveness within the test range, scraping was the best method.

ADNO: 234004
AUTH: LEE H. ; SARTOR J.D. ; VAN HORN W.H.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 5901
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Warfare Postattack Recovery resources soil quality L1
DESC: Nuclear Warfare Postattack Recovery decontamination L1 GRADING
SCRAPING DOZING
REPN: NRDL TR 337
SUJO: 3-448-400 ; 3-448-900
TITL: STONEMAN II TEST OF RECLAMATION PERFORMANCE; VOL. 4, PERFORMANCE
CHARACTERISTICS OF LAND RECLAMATION PROCEDURES (U), 65 P., (U)

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24726

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copy: 1 id: 56923-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24843
AUTH: BROUGH T.G.
CLSS: CFRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB.
DATE: 6105
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology base surge L1
SHOT: UMBRELLA ; WAHOO ; BAKER (XRD) ; WIGWAM ; BRITISH (52-10-03)
TSHO: UW
SUJO: 2-224-120
TEMP: B3110
TITL: PREDICTING EXTENT OF VISIBLE BASE SURGE (U), 85 P., (CFRD)

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24843

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copy: 1 id: 57002-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24852
AUTH: SPENCER M.T.
CLSS: SRD
CORP: DEFENSE NUCLEAR AGENCY FIELD COMMAND (ALBUQUERQUE, NM)
DATE: 5909
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: EXPERIMENTAL TABULAR

DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Airblast static overpressure L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

REPN: FC 09590643

SHOT: [REDACTED]

TSHO: SURFACE

SOCE: DAVY CROCKETT ; XW-54

SUJO: 1-110-000 ; 1-240-000 ; 1-710-000 ; 2-611-000

TEMP: A8797

TITL: PREDICTED BLAST, THERMAL, AND PROMPT RADIATION EFFECTS FOR THE DAVY
CROCKETT (U), 20 P., (SRD)

TREE: 910 ; 920

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copy: 1 id: 57008-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26421

AUTH: WANG R.I.H. ; KERELAKES J.G.

CLSS: U

CORP: ARMY MEDICAL RESEARCH LAB. (FT. KNOX, KY)

DATE: 6012

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: AMRL 459

SUJO: 3-312-100

TITL: PROTECTION FROM RADIATION INDUCED LETHALITY BY CHEMICAL MIXTURE AND
PARTIAL-BODY SHIELDING (U), 10 P., (U)

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26421

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copy: 1 id: 58107-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26425

AUTH: PERKINS C.W. ; DENNEY J.M. ; DOWNING R.G.

CLSS: U

CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)

DATE: 5909

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE

REPN: TM 622

SUJO: 3-221-000 ; 3-231-000

TITL: SECOND EXPERIMENT ON PULSED NEUTRON RADIATION EFFECTS (U), 17 P.,
(U)

TREE: 390 ; 310

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26425

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copy: 1 id: 58111-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26426

AUTH: PERKINS C.W. ; DENNEY J.M. ; DOWNING R.G.

CLSS: U

CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)

DATE: 5910

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: EXPERIMENTAL

EFFT: TREE

REPN: TM 623

SUJO: 3-221-000 ; 3-231-000

TITL: THIRD EXPERIMENT ON PULSED NEUTRON RADIATION EFFECTS (U), 24 P., (U)

TREE: 310 ; 390

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26426

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copy: 1 id: 58112-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 27283

CLSS: U

CORP: ATOMIC BOMB CASUALTY COMMISSION (HIROSHIMA-NAGASAKI, JAPAN)

DATE: 6100

DESC: BIBLIOGRAPHY

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

REPN: TID 18968

SUJO: 3-312-000

TITL: BIBLIOGRAPHY OF PUBLICATIONS CONCERNING EFFECTS OF NUCLEAR
EXPLOSIONS (U), 23 P., (U)

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27283

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copy: 1 id: 58790-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 28493
AUTH: TAKESHITA K.
CLSS: U
CORP: KYUSHU UNIVERSITY, FACULTY OF MEDICINE, DEPT. OF RADIOLOGY (FUKUOKA)
DATE: 6200
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: EXPERIMENTAL SUMMARY
LA: JAPAN
SHOT: NAGASAKI
TSHO: LOW-ALT
SUJO: 2-223-300
SYMJ: JOURNAL OF RADIATION RESEARCH 3-3 177-181, SEPT. 1962
TITL: MEASUREMENTS OF RADIOACTIVITY IN NISHIYAMA DISTRICT, NAGASAKI, JAPAN
(U), 5 P., (U)

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28493

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copy: 1 id: 59777-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 28985
ADNO: A076368
AUTH: PLACAK O.R. ; SEAL M.S. ; MCBRIDE J.R. ; GILMORE R.A. ; ELDER R.L.
CLSS: U
CONN: AT (29 2) 162
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV)
DATE: 5908
DESC: Nuclear Weapon Test safety L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: OTO 58 6
SHOT: RUSHMORE ; CATRON ; JUNO ; CERES ; SANFORD ; HUMBOLDT ; GANYMEDE ;
TITANIA ; VESTA ; RIO ARRIBA ; SAN JUAN ; SOCORRO ; WRANGELL ;
OBERON ; COLFAX ; TAMALPAIS ; QUAY ; LEA ; NEPTUNE ; HAMILTON ;
LOGAN ; DONA AN ; BLANCA ; SANTA FE ; MAZAMA ; EVANS ; CHAVES ; DE
BACA ; OTERO ; BERNALILLO ; EDDY ; LUNA ; MERCURY ; VALENCIA ; MARS
; MORA ; HIDALGO
TSHO: UG-CONTAINED ; LOW-ALT
SUJO: 2-223-100 ; 4-856-000
TITL: OPERATION HARDTACK--PHASE II, OFF-SITE RADIOLOGICAL SAFETY REPORT,
NEVADA TEST SITE, 1958 (U), 239 P., (U)

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28985

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copy: 1 id: 60107-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29004

ADNO: A078823
AUTH: MINKKINEN C. ; SCHLACKS H.P. ; GOEKE R.H. ; WEAVER C.L.
CLSS: U
CORP: NEVADA TEST ORGANIZATION (AEC), MERCURY OFF-SITE RADIOLOGICAL SAFETY
ACTIVITIES (MERCURY, NV)
DATE: 5904
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Test safety L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: EXPERIMENTAL
REPN: OTO 58 3
SUJO: 2-223-200 ; 2-223-420 ; 4-856-000
TITL: OPERATION HARDTACK, PHASE I, TASK GROUP 7.5; RADIOLOGICAL SAFETY
SUPPORT (U), 46 P., (U)

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copy: 1 id: 60118-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29005
ADNO: A078562
AUTH: TELEGADAS K. ; NAGLER K.M.
CLSS: U
CORP: WEATHER BUREAU (SILVER SPRING, MD)
DATE: 6005
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment fallout arrival time L1 CLOUD PASSAGE
DESC: Nuclear Weapon Environment fallout transport L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology cloud shape size L1
SHOT: BERNALILLO ; OTERO ; TITANIA ; BLANCA ; SANTA FE ; HUMBOLDT ; EVANS
; CHAVES ; DE BACA ; SANFORD ; CERES ; JUNO ; CATRON ; WRANGELL ;
RUSHMORE ; SOCORRO ; RIO ARRIBA ; VESTA ; DONA ANA ; HAMILTON ;
NEPTUNE ; LEA ; QUAY ; TAMALPAIS ; COLFAX ; HIDALGO ; MORA ; MARS ;
VALENCIA ; LUNA ; EDDY
TSHO: SURFACE ; UG-CONTAINED
SUJO: 2-223-420 ; 2-224-140 ; 2-224-200 ; 2-225-100 ; 2-225-300
TITL: FALLOUT PATTERNS FROM OPERATION HARDTACK, PHASE II (U), 128 P., (U)

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29005

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copy: 1 id: 60119-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 30103
AUTH: WIEDERHOLT G.M.

CLSS: U
CORP: GE TEMPO (SANTA BARBARA, CA)
DATE: 5911
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: SURVEY
REPN: 59 TMP 66
SUJO: 3-312-220
TITL: NATURE AND EFFECTS OF WORLDWIDE FALLOUT FROM NUCLEAR WEAPONS (U), 66
P., (U)

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30103
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copy: 1 id: 60897-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 30651
AUTH: WERTH G.C. ; HERBST R.F.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6212
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: nuclear test detection seismic detection
DESC: NEW MEXICO TEXAS UTAH ARIZONA NEVADA CALIFORNIA ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock scaling
SHOT: RAINIER ; FISHER ; GNOME ; HARDHAT
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-624-000 ; 4-910-100
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 5 (U), P
1463, MARCH 1,1963
TITL: COMPARISON OF AMPLITUDES OF SEISMIC WAVES FROM NUCLEAR EXPLOSIONS IN
FOUR MEDIUMS (U), 13 P (U)

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30651
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copy: 1 id: 61349-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 30683
ADNO: 509983L
AUTH: ROWE M.H. ; MORRIS W.E.
CLSS: SRD
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD)
DATE: 6009
DESC: Nuclear weapon safety radiological L1
DESC: SURVEY
REPN: NAVWEPS 7306

SUJO: 4-838-100
TEMP: C0684
TITL: PLUTONIUM CONTAMINATION--PHENOMENOLOGY, CONSEQUENCES, ESTIMATED
COSTS (U), 82 P., (SRD)

TNFF: 8859

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30683

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copy: 1 id: 61375-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 30816

AUTH: BELLMAN R. ; KALABA R. ; VASUDEVAN R.

CLSS: U

CONN: SD 79

CORP: RAND CORP. (SANTA MONICA, CA)

DATE: 6204

DESC: Radiation Transport neutron L1

DESC: THEORY

REPN: RM 3114 ARPA

SUJO: 9-650-000

TITL: INVARIANT IMBEDDING THEORY OF NEUTRON TRANSPORT--CORRELATION
FUNCTIONS (U), 11 P., (U)

TREE: 970

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30816

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copy: 1 id: 61503-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 30832

AUTH: THOMPSON W.E. ; FERGUSON J.M. ; MATHER R.L.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6011

DESC: THEORY EXPERIMENTAL

DESC: Radiation Transport neutron L1

REPN: NRDL TR 478

SUJO: 9-650-000

TITL: NEUTRON DISTRIBUTIONS NEAR AN AIR-SOIL BOUNDARY (U), 75 P., (U)

TREE: 970

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copy: 1 id: 61519-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 30833
AUTH: YANG J.Y. ; GEVANTMAN L.H.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6009
DESC: Nuclear Physics Chemistry L1
DESC: EXPERIMENTAL
REPN: NRDL TR 471
SUJO: 9-010-000
TITL: TRITIUM BETA RADIATION-INDUCED ISOTOPIC EXCHANGE IN THE T2-H20
SYSTEM (U), 20 P., (U)

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30833

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copy: 1 id: 61520-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32155
ADNO: 346862L
AUTH: CULVER W.H.
CLSS: U
CONN: SD 50
CORP: INSTITUTE FOR DEFENSE ANALYSES
DATE: 6201
DESC: THEORY SUMMARY
DESC: Directed Energy Weapons Lasers Technology Beam generation energy
supply L1
REPN: IDA TN 62 3
SUJO: 3-611-400
TITL: REPORT ON THE IDA COMMITTEE ON OPTICAL MASERS RADIATION WEAPONS, I
(U), 20 P., (U)

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copy: 1 id: 62809-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32156
ADNO: 346859
AUTH: CULVER W.H.
CLSS: U
CORP: INSTITUTE FOR DEFENSE ANALYSES
DATE: 6203
DESC: Directed Energy Weapons Lasers Effects Metals L1
DESC: THEORY EXPERIMENTAL SUMMARY
REPN: IDA TN 62 13

SUJO: 3-613-100
TITL: REPORT ON OPTICAL MASER RADIATION WEAPONS III (U), 5 P., (U)

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32156

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32164
ADNO: 334852
CLSS: U
CONN: AF 30 (602) 2638
CORP: WESTINGHOUSE DEFENSE CENTER (BALTIMORE, MD)
DATE: 6211
DESC: Directed Energy Weapons Lasers Deployed Systems Fixed land systems

L1

DESC: THEORY
REPN: RADC TDR 62 622
SUJO: 3-612-400
TITL: INVESTIGATION OF OPTICS FOR A RADIATION WEAPON SYSTEM (U), 30 P.,
(U)

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32164

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copy: 1 id: 62818-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32340
ADNO: 356319L
CLSS: C
CONN: AF 30 (602) 2083
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)
DATE: 6211
DESC: Directed Energy Weapons Microwaves HPM Applications BMD anti-missile

L1

DESC: Directed Energy Weapons Microwaves HPM RDT&E Programs L1
DESC: THEORY
DESC: Directed Energy Weapons Microwaves HPM Effects Metals L1
REPN: RADC TDR 61 286
SUJO: 3-650-400 ; 3-653-100 ; 3-656-200
TEMP: C1791 2
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 2 (U), 60 P., (C)

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32340

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copy: 1 id: 62992-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 32341
ADNO: 356582L
CLSS: C
CONN: AF 30 (602) 2083
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)
DATE: 6210
DESC: SUMMARY
DESC: Directed Energy Weapons Microwaves HPM RDT&E Programs L1 COMET
REPN: RADC TDR 62 544 V.1
SUJO: 3-650-400
TEMP: C1791 3 1
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 3, VOL. 1 SUMMARY
AND RECOMMENDATIONS (U), 25 P., (C)

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32341
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copy: 1 id: 62993-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 32342
ADNO: 356583L
CLSS: C
CONN: AF 30 (602) 2083
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)
DATE: 6210
DESC: Directed Energy Weapons Microwaves HPM Technology Beam generation
energy supply L1
DESC: Directed Energy Weapons Microwaves HPM Effects RVs L1 COMET
DESC: THEORY TABULAR
DESC: Directed Energy Weapons Lasers RDT&E Programs L1
REPN: RADC TDR 62 544 V.2
SUJO: 3-610-400 ; 3-651-400 ; 3-653-200
TEMP: C1791 3 2
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 3, VOL. 2
COMPLETE REPORT (U), 210 P., (C)

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32342
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copy: 1 id: 62994-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 32664
AUTH: HARDY N. ; HERBST R.F. ; LEITH C.E. ; SCHULZ W.D.
CLSS: SRD
CONN: W 7405 ENG 48

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 5901
DESC: Fluid Mechanics hydrodynamics L1
DESC: THEORY CODE
REPN: UCRL 5429 T
SHOT: CORONET II (2 D-HYDRO AND UCRL)
SUJO: 9-410-000
TEMP: B4524
TITL: CORONET II, TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION FLOW CODE
FOR THE IBM 704 (U), 84 P., (SRD)

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32664

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copy: 1 id: 63306-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 33484
ADNO: 241107L
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6000
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Cross Sections gamma L1 SHIP SHIELDING
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology base surge L1
TSHO: UW
SUJO: 2-223-100 ; 2-224-120 ; 9-830-000
TITL: PROCEEDINGS OF THE TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL. 1, REVIEW AND LECTURES NO.
103, 16 TO 20 MAY 1960 (U), 200 P., (U)

TREE: 411

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33484

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copy: 1 id: 64180-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 33801
ADNO: 239075L
AUTH: MCCALLA E.D. ; BENSON J.W.
CLSS: U
CORP: LOCKHEED AIRCRAFT CORP, GEORGIA DIVISON
DATE: 6006
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1
DESC: THEORY
EFFT: TREE
REPN: NR 91 ; NUCLEAR REPT 91
SUJO: 3-234-000

TITL: ANALYTICAL ANALOG STUDY OF SOME RADIATION EFFECTS ON AN
ELECTROHYDRAULIC SERVO TEST LOOP (U), 70 P., (U)

TREE: 350

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33801

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copy: 1 id: 64503-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 33847

ADNO: 409733L

AUTH: BELL J.E. ; HELMS R.L. ; PIZALER P.H. ; WALKER K.R.

CLSS: U

CONN: AF 29(601) 4743

CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA)

DATE: 6206

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1

DESC: TABULAR

EFFT: TREE

SUJO: 3-213-000 ; 3-219-000

TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN
BASIC ELECTRONIC CIRCUITS (U), 175 P., (U)

TREE: 369 ; 367

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33847

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copy: 1 id: 64548-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 33860

ADNO: 320476L

CLSS: U

CONN: DA 36 039 SC 78171

CORP: EG AND G, INC. (BOSTON, MA)

DATE: 6006

DESC: TABULAR

DESC: test instruments electronic vulnerability TREE L1

SUJO: 4-372-000

TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES, VOL. 1 (1 AUG 1958
TO MAR 1960) (U) 285 P., (U)

TREE: 656

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33860

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copy: 1 id: 64561-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33861
ADNO: 320477L
CLSS: U
CONN: DA 36 039 SC 78171
CORP: EG AND G, INC. (BOSTON, MA)
DATE: 6006
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY
EFFT: TREE
SUJO: 3-221-000
TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES, VOL. 2 (1 AUG 1958
TO 10 MARCH 1960) (U), 85 P., (U)
TREE: 310

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33861
.endblock

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copy: 1 id: 64562-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33862
ADNO: 409846L
AUTH: BELL J.E. ; LOVELAND R.D. ; LOWRY J.W. ; SLIVKA L.P.
CLSS: U
CONN: AF 29(601) 2538
CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)
DATE: 6012
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
DESC: THEORY EXPERIMENTAL
EFFT: TREE
SUJO: 3-213-000 ; 3-229-000
TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN
BASIC ELECTRONIC CIRCUITS (U), CA. 150 P., (U)
TREE: 369 ; 305

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33862
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copy: 1 id: 64563-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33964

ADNO: 312143L
CLSS: U
CONN: DA 36 039 SC 78171
CORP: EG AND G, INC. (BOSTON, MA)
DATE: 5907
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TUBES
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
REPN: EGG B1936
SUJO: 3-221-000 ; 3-229-000
TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES; SECOND QUARTERLY
REPORT, 1 FEBRUARY-30 JUNE 1959 (U), 366 P., (U)
TREE: 310 ; 305

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copy: 1 id: 64663-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 34256
AUTH: RICHARDS P.I.
CLSS: U
CONN: DA 19 020 ORD 5408
CORP: TECHNICAL OPERATIONS, INC.
DATE: 6205
DESC: THEORY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
REPN: TO B 62 24
TSHO: HI-ALT
SUJO: 2-311-000
TITL: SUMMARY REPORT ON INVESTIGATION OF RADIATION AND CHEMICAL
CALCULATIONS (U), CA. 75 P., (U)

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34256

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copy: 1 id: 64942-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 34383
AUTH: PARKER L.W.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 5912
DESC: Nuclear Weapon Environment Visible Output rate L1
REPN: UCRL 5796 T ; SR 160738

SUJO: 1-440-000
TEMP: B4574
TITL: TELLER LIGHT--EFFECTS OF ABSORPTION (U), 50 P., (SRD)

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34383
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copy: 1 id: 65061-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 34384
AUTH: WESLEY J.P. ; PARKER L.W.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 5908
DESC: SURVEY
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
REPN: UCRL 5645
SUJO: 1-420-000 ; 1-430-000 ; 1-440-000
TEMP: B4575
TITL: SPACE TIME DEVELOPMENT OF TELLER LIGHT (U), 33 P., (SRD)

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34384
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copy: 1 id: 65062-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 34637
ABS: This is the final report of a study contract concerning the establishment of an earth orbital vehicle (EOV) lethal and nonlethal self-defense measures against threats in the 1965-1980 time period. The study was conducted during the period from may 1961 to December 1962. (author)

ADNO: 341767
CLSS: S
CONN: AF 33(616) 8312
CORP: NORTHROP SPACE LABS. (HAWTHORNE, CA)
DATE: 6209
DESC: Directed Energy Weapons Lasers Applications Satellite defense L1
DESC: THEORY
DESC: Directed Energy Weapons Applications Satellite defense L1
DESC: Directed Energy Weapons Technology Beam generation energy supply L1
REPN: NSL 62 204 V.2 PTS.2+3
SUJO: 3-601-400 ; 3-606-110 ; 3-616-110
TEMP: C4355
TITL: EARTH-ORBITAL VEHICLE DEFENSE ENVIRONMENT STUDY; VOL. 2 PTS. 2 AND 3: PT. 2, RADIATION WEAPONS FOR THE DEFENSE OF EARTH-ORBITAL

VEHICLES; PT. 3, EARTH-ORBITAL VEHICLE MECHANICAL DEFENSE CONCEPTS
(U), CA. 500 P., (S)

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34637

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copy: 1 id: 65312-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 40112

ABS: This report presents the state of the art on the effects of nuclear radiation on adhesives. It summarizes the radiation effects information published up to 1961 for various adhesives based on organic materials. The information presented is largely for structural adhesives, since most radiation-effects studies were on these types. With a few exceptions, the radiation stability on nonstructure adhesives has not been determined.

ACCD: 91 03 07

ADNO: B968015

AUTH: Broadway N.J. ; Palinchak S.

CLSS: U

CONN: AF 33(616) 7375 ; AF 33(616) 6564

CORP: Battelle Memorial Institute, Radiation Effects Information Center
(Columbus, OH)

DATE: 6103

DESC: EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects materials plastics resins L1 EPOXY-PHENOLIC
VINYL-PHENOLIC NYLON-PHENOLIC EPOXY EPOXY-THIOKOL NITRILE RUBBER
NEOPRENE-PHENOLIC

EFFT: NEUTRON ; GAMMA ; TREE

REPN: REIC 17

SUJO: 3-244-000

TITL: Effect of Nuclear Radiation on Structural Adhesives (U), 91 P., (U)

TREE: 385

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40112

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copy: 1 id: 71296-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 1

AUTH: HILLENDahl R.W.

CLSS: C 1

CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5906

DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1

DESC: test instruments thermal temperature L1

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9

DESC: SURFACE OBSERVATION TROPOSPHERIC OBSERVATION ; SUMMARY

DESC: Nuclear weapon test yield L9
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: test instruments UV L1
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1
REPN: AFSWP 0902 1 ; NRDL TR 383 V1
SHOT: KING ; ENCORE ; GRABLE ; CLIMAX ; BRAVO ; ROMEO ; UNION ; NECTAR ;
WASP ; MOTH ; TESLA ; BEE ; WASP PRIME ; LACROSSE ; CHEROKEE ; ZUNI ;
FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON ; CACTUS ;
BUTTERNUT ; KOA ; YELLOWWOOD ; MAGNOLIA ; ROSE ; TOBACCO ; WALNUT ;
FIG ; DIXIE ; HARRY ; BRAVO ; HORNET ; ERIE ; KICKAPOO ; INCA ;
MOHAWK ; BOLTZMANN ; PRISCILLA ; HOOD ; DIABLO ; STOKES ; SHASTA ;
DOPPLER ; FRANKLIN ; SMOKY
TSHO: LOW-ALT ; SURFACE
SUJO: 1-210-000 ; 1-240-000 ; 1-320-000 ; 1-420-000 ; 1-520-000 ;
2-110-000 ; 4-381-000 ; 4-384-000 ; 4-835-000 ; 4-841-000 ;
5-200-000
TEMP: 33149
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS,
VOL. 1 (U), 98 P., (C)

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AFSWP 0902 1

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copy: 1 id: 72547-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 2
AUTH: HILLENDAHL R.W.
CLSS: C 1
CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5906
DESC: SUMMARY
DESC: test instruments UV L1
DESC: test instruments thermal temperature L1
REPN: AFSWP 0902 2 ; NRDL TR 383 V2
SUJO: 4-381-000 ; 4-384-000
TEMP: 33149
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS,
VOL. 2 (U), CA. 400 P., (SRD)

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AFSWP 0902 2

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copy: 1 id: 72548-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 3
AUTH: HILLEDAHL R.W.
CLSS: SRD
CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5906
DESC: SUMMARY THEORY
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
REPN: AFSWP 0902 3 ; NRDL TR 383 V3
SHOT: WASP ; WASP PRIME ; GRABLE ; ENCORE ; CLIMAX ; KING ; CHEROKEE ; HA
; DIXIE ; JOHN ; YUCCA ; ORANGE ; TEAK ; OTHERS
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-210-000 ; 1-320-000 ; 1-420-000 ; 1-520-000 ; 2-110-000 ;
5-200-000
TEMP: 33149 V 3
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS
(U), VOLUME 3, TECHNICAL REPORT, 136 P, (SRD)

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AFSWP 0902 3

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0938
AUTH: PORZEL F.B.
CLSS: C
CORP: ARMOUR RESEARCH FOUNDATION (CHICAGO-IL)
DATE: 6201
DESC: THEORY
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 TEMPERATURE
REPN: DASA 0938
SUJO: 1-240-000 ; 2-130-000
TEMP: 73084 ; 77319
TITL: SURFACE EFFECTS ON BLAST LOADING, PART I, THERMAL RADIATION, INTERIM
REPORT NO. II (U), 61 P, (C)

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AFSWP 0938

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1119
AUTH: FERRIS H.G.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 5901
DESC: test instruments thermal temperature
DESC: THEORY
REPN: AFSWP 1119 ; USNRDL TR 311
SUJO: 4-384-000
TITL: THEORETICAL ANALYSIS OF RADIOMETER PERFORMANCE (U), 18 P (U)

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AFSWP 1119

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1133
AUTH: JENKINS R.J. ; INN E.C.Y. ; PARKER W.J. ; RUDKIN R.L.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5903
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Environment Infrared Output rate L1 NEAR 1R
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 NEAR
1R
DESC: Nuclear weapon test yield L1 P6
DESC: RB-36 AIRCRAFT ; EXPERIMENTAL DATA
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1 NEAR UV
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
NEAR UV
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
REPN: USNRDL TR 333 ; AFSWP 1133
PROJ: 8.4
SHOT: HA ; YUCCA ; ORANGE ; TEAK ; WASP PRIME
TSHO: HI-ALT ; LOW-ALT
SUJO: 1-320-000 ; 1-340-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ;
1-540-000 ; 4-835-000
TEMP: 39610 ; B1840
TITL: SPECTRAL IRRADIANCE HISTORY OF THE THREE HIGH ALTITUDE SHOTS OF
OPERATION HARDTACK, 24 P, (S)

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AFSWP 1133

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1135

AUTH: MARTIN S.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 5904
DESC: Nuclear Weapon Effects on plants thermal
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: SUMMARY
DESC: Nuclear Weapon Effects materials fibers textiles
REPN: AFSWP 1135 ; USNRDL TR 367
SUJO: 3-242-000 ; 3-246-000 ; 3-333-000
TITL: PREDICTING THE IGNITION SUSCEPTIBILITY OF TYPICAL KINDLING FUELS TO IGNITION BY THE THERMAL RADIATION FROM NUCLEAR DETONATIONS (U), 32 P (U)

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AFSWP 1135

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 57.1

ABS: The civil effects test operation exercise CEX-57.1 following Operation Plumbbob was carried out to obtain information on decontamination procedures that could be used as radiological countermeasures. The test was conducted on D + 1 and D + 2 days after shot coulomb C. Data were obtained on reclamation of land areas by scraping with a motorgrader, on firehosing and scrubbing a concrete-slab roof, and on fire-hosing a composition roof. In addition, some shielding data were obtained for a small building with 6-in. -thick concrete walls and roof. The conceptual nature of a radiological defense system and the role of decontamination or reclamation in such a system are discussed. Most of the report deals with methods for reducing the observed data to interpretive form because the data were taken within a large contaminated area.

ABS: The decontamination effectiveness in terms of the fraction of contamination remaining was computed to be (1) 0.2 to 0.3 for scraping with a motorgrader (1 pass with 1 1/2-in. Cut); (2) 0.3 to 0.4 for fire-hosing a concrete roof (1 pass, 50-psi nozzle pressure); and (3) 0.3 to 0.4 for fire-hosing a composition shingle roof. No significant additional amount of fallout was removed from the concrete roof when it was scrubbed after fire-hosing. These results are high compared to other data owing to the low levels of contamination and error in the measurements and data analysis methods. It is concluded that low levels of contamination at the Nevada Test Site could be utilized to advantage to obtain data on gamma-radiation properties, such as the effects of materials and source geometries on the attenuation of fission-product gamma rays.

ABS: However, higher levels of fallout, in terms of the fallout particle mass, are required to obtain useful information and training on decontamination techniques; therefore, the use of low levels of contamination to conduct studies in this area is not recommended.

AUTH: MILLER C.F.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6009
DESC: Nuclear Warfare Postattack Recovery decontamination L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5 P
17
REPN: CEX 57.1
SHOT: COULOMB C
TSHO: SURFACE
SUJO: 2-223-420 ; 2-225-100 ; 3-312-210 ; 3-448-900
TITL: RADIOLOGICAL ASSESSMENT AND RECOVERY OF CONTAMINATED AREAS (U), 68
P., (U)
TNFF: 6220

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CEX 57.1

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copy: 1 id: 72714-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.2
AUTH: DAVIS T.P. ; MILLER N.D. ; ELY T.S. ; BASSO J.A. ; PEARSE H.E.
CLSS: U
CORP: UNIVERSITY OF ROCHESTER (ROCHESTER-NEW YORK)
DATE: 5905
DESC: Nuclear Weapon Effects on animals thermal burns heating
DESC: EXPERIMENTAL
DESC: test instruments thermal temperature
DESC: test instruments nuclear radiation beta electron beams
REPN: CEX 58 2
SUJO: 3-313-100 ; 4-344-000 ; 4-384-000
TITL: SCATTERING OF THERMAL RADIATION INTO OPEN UNDERGROUND SHELTERS (U),
26 P (U)

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CEX 58.2

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copy: 1 id: 72716-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.4.8
AUTH: MACKALLOR J.A.
CLSS: U
CORP: GEOLOGICAL SURVEY
DATE: 6201

DESC: EXPERIMENTAL
DESC: Geology L5
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
REPN: CEX 58.4.8
SUJO: 3-540-000 ; 6-700-000
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE GEORGIA NUCLEAR
LABORATORY AREA, NORTHERN GEORGIA (ARMS-I) (U), 36 P., (U)

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CEX 58.4.8

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.8
AUTH: WHITE C.S. ; BOWEN I.G. ; RICHMOND D.R. ; CORSBIE R.L.
CLSS: U
CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
(ALBUQUERQUE-NM)

DATE: 6101
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals blast shock L1
DESC: Nuclear Weapon Effects on animals thermal L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
REPN: CEX 58.8
SUJO: 3-311-000 ; 3-312-000 ; 3-313-000
TITL: COMPARATIVE NUCLEAR EFFECTS OF BIOMEDICAL INTEREST (U), 81 P, (U)

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CEX 58.8

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.1
AUTH: BATTER J.F. ; KAPLAN A.L. ; CLARKE E.T.
CLSS: U
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)
DATE: 5905
DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation

DESC: Cross Sections gamma
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation
REPN: CEX 59 1
SUJO: 3-312-000 ; 4-242-000 ; 9-830-000
TITL: EXPERIMENTAL EVALUATION OF THE RADIATION PROTECTION AFFORDED BY A
LARGE MODERN CONCRETE OFFICE BUILDING (U), 61 P (U)

TREE: 411
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CEX 59.1

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4 1

AUTH: MERIAN R.F. ; LACKEY J.G. ; HAND J.E.

CLSS: U

CORP: EG+G, INC.

DATE: 6007

DESC: SUMMARY

DESC: test instruments nuclear radiation gamma L1

REPN: CEX 59.4

SUJO: 4-341-000

TITL: AERIAL RADIOLOGICAL MONITORING SYSTEM; I, THEORETICAL ANALYSIS,
DESIGN, AND OPERATION OF A REVISED SYSTEM (U), 54 P., (U)

TREE: 651

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CEX 59.4 1

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.11

AUTH: SCHMIDT R.G.

CLSS: U

CORP: GEOLOGICAL SURVEY

DATE: 6103

DESC: EXPERIMENTAL

DESC: Geology L5

DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1

REPN: CEX 59.4.11

SUJO: 3-540-000 ; 6-700-000

TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE HANFORD PLANT
AREA, WASHINGTON AND OREGON (ARMS-I) (U), 25 P., (U)

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CEX 59.4.11

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.14

AUTH: POPENOE P.

CLSS: U

CORP: GEOLOGICAL SURVEY

DATE: 6208
DESC: Geology L5
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: EXPERIMENTAL
REPN: CEX 59.4.14
SUJO: 3-540-000 ; 6-700-000
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF PARTS OF EAST-CENTRAL
NEW YORK AND WEST-CENTRAL NEW ENGLAND (ARMS-I) (U), 39 P., (U)

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CEX 59.4.14

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INUM: CEX 59.4.15
AUTH: BATES R.G.
CLSS: U
CORP: GEOLOGICAL SURVEY
DATE: 6103
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: Geology L5
DESC: EXPERIMENTAL
REPN: CEX 59.4.15
SUJO: 3-540-000 ; 6-700-000
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE OAK RIDGE NATIONAL
LABORATORY AREA, TENNESSEE AND KENTUCKY (ARMS-I) (U), 42 P., (U)

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CEX 59.4.15

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INUM: CEX 59.4.16
AUTH: BOOKS K.G.
CLSS: U
CORP: GEOLOGICAL SURVEY
DATE: 6105
DESC: EXPERIMENTAL
DESC: Geology L5
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
REPN: CEX 59.4.16
SUJO: 3-540-000 ; 6-700-000
TITL: AERORADIOACTIVITY SURVEY AND RELATED SURFACE GEOLOGY OF PARTS OF THE
LOS ANGELES REGION, CALIFORNIA (ARMS-I) (U), 25 P., (U)

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CEX 59.4.16

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created: 12/27/1991 type: REPORT permanent
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INUM: CEX 59.13
AUTH: STRICKLER T.D. ; AUXIER J.A.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6004
DESC: Cross Sections gamma L1
DESC: EXPERIMENTAL
REPN: CEX 59.13
SUJO: 9-830-000
TITL: EXPERIMENTAL EVALUATION OF THE RADIATION PROTECTION AFFORDED BY
TYPICAL OAK RIDGE HOMES AGAINST DISTRIBUTED SOURCES (U), 51 P., (U)

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CEX 59.13

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created: 12/27/1991 type: REPORT permanent
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INUM: CEX 61.6.3
AUTH: GUILLOU R.B.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6111
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: EXPERIMENTAL
DESC: Geology L5
REPN: CEX 61.6.3
SUJO: 3-540-000 ; 6-700-000
TITL: CAMDEN--DELAWARE VALLEY AREA (ARMS-II) (U), 20 P., (U)

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CEX 61.6.3

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INUM: CEX 61.6.4
AUTH: GUILLOU R.B.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6112
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: Geology L5
DESC: EXPERIMENTAL
REPN: CEX 61.6.4

SUJO: 3-540-000 ; 6-700-000
TITL: NORFOLK--PENINSULA AREA (ARMS-II) (U), 20 P., (U)

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CEX 61.6.4

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.01

AUTH: AUXIER J.A. ; SANDERS F.W. ; HAYWOOD F.F. ; THORNGATE J.H. ; CHEKA

J.S.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NY), OAK RIDGE NATIONAL LAB (OAK
RIDGE-TN)

DATE: 6201

DESC: Nuclear RDT&E Research Program Descriptions biomedical

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

REPN: CEX 62.01

SUJO: 4-140-000 ; 4-150-000

TITL: TECHNICAL CONCEPT-OPERATION BREN (U), 20 P (U)

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CEX 62.01

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.02

AUTH: SANDERS F.W. ; HAYWOOD F.F. ; LUNDIN M.I. ; GILLEY L.W. ; CHEKA J.S.
; WARD D.R.

CLSS: U

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)

DATE: 6204

DESC: Nuclear Weapon Test safety L1

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

DESC: SUMMARY

REPN: CEX 62.02

SUJO: 4-241-000 ; 4-856-000

TITL: OPERATION PLAN AND HAZARDS REPORT--OPERATION BREN (U), 101 P., (U)

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CEX 62.02

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.6.1
AUTH: GUILLOU R.B.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6206
DESC: Geology L5
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: EXPERIMENTAL
REPN: CEX 62.6.1
SUJO: 3-540-000 ; 6-700-000
TITL: GALVESTON AREA (ARMS-II) (U), 21 P., (U)

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CEX 62.6.1

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.6.3
AUTH: GUILLOU R.B.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6212
DESC: EXPERIMENTAL
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1
DESC: Geology L5
REPN: CEX 62.6.3
SUJO: 3-540-000 ; 6-700-000
TITL: ARGUELLO AREA (ARMS-II) (U), 19 P., (U)

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CEX 62.6.3

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0516
ADNO: 257578
AUTH: ELLINGER F. ; STRIKE T.
CLSS: U
CORP: NAVY/MEDICAL RESEARCH INSTITUTE (BETHESDA-MD)
DATE: 6011
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SIMULATION (GAMMA SOURCE) ; EXPERIMENTAL
REPN: DASA 516 ; R 5
SHOT: MOLE ; ESS
TSHO: LOW-ALT ; SURFACE
SUJO: 3-312-100
TITL: PHARMACOLOGICAL STUDIES ON IRRADIATED ANIMALS. X EFFECTS OF CELLFREE
SPLEEN EXTRACT TREATMENT ON HEMATOPOIETIC TISSUES OF IRRADIATED

GUINEA PIGS (U), RESEARCH REPORT, 38 P (U) NUMBER 5, VOLUME 18 (U),
39 P (U)

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DASA 0516

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copy: 1 id: 73986-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0528

ADNO: 339899L

AUTH: DOLAN P.J.

CLSS: SRD

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 5908

DESC: Nuclear Weapon Environment radiation decay L1 2R 95 LA 140 SR 90 SR
89 CS 137

DESC: THEORY SUMMARY TABULAR

DESC: Nuclear Weapon Environment fallout fractionation L1

REPN: DASA 0528

SHOT: ZUNI ; TEWA ; SUGAR

TSHO: LOW-ALT

SUJO: 2-223-400 ; 2-223-500

TEMP: 59514

TITL: THEORETICAL DOSE RATE DECAY CURVES FOR CONTAMINATION RESULTING FROM
LAND SURFACE BURST NUCLEAR WEAPONS (U), TECHNICAL ANALYSIS REPORT,
46 P, (SRD)

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DASA 0528

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copy: 1 id: 73990-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0529

ABS: The High Altitude Sampling Program was initiated in 1954 to
determine the spread of weapon produced fission products through the
stratosphere. U-2 aircraft operated by the Strategic Air Command
have been sampling stratospheric air at various altitudes along
North-South paths from 66 deg North to 57 deg South at 70 deg West
since 1957. Isotopes Incorporated, the principle contractor in this
program, has analyzed over 1500 samples to date. Further
metrological correlation has evolved a model of the stratosphere
which accounts for the non-uniform deposition of fission products.
The total stratospheric inventory of Sr/sup 90/ as of the Fall of
1958 was found to be 1 megacurie. The half-residence time of polar
injections and equatorial injections into the stratosphere was found
to be six months and twelve months, respectively.

ABS: The major portion of the stratospheric debris moves into the
troposphere through the midlatitude tropopause break. Predictions of

Sr/sup 90/ levels to be found in equilibrium bone have been made through 1972. (auth) AIR; AIRCRAFT; DISPERSIONS; EARTH; FALLOUT; FISSION PRODUCTS; LEVELS; MATHEMATICS; METEOROLOGY; NUCLEAR EXPLOSIONS; QUANTITATIVE ANALYSIS; QUANTITY RATIO; RADIOACTIVITY; SAMPLING; STANDARDS; STRATOSPHERE; STRONTIUM 90; ZONES

AUTH: STEBBINS A.K.
CLSS: U
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.)
DATE: 5907
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment fallout transfer
DESC: Nuclear Weapon Environment fallout transport
DESC: SUMMARY
REPN: DASA 0529
SUJO: 2-223-100 ; 2-224-200 ; 2-224-300 ; 4-140-000
TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), 27 P (U)

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DASA 0529

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copy: 1 id: 73991-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0531

ABS: The High Altitude Sampling Program was initiated by the Joint Chiefs of Staff in 1954 to determine the spread of weapon-produced fission products through the stratosphere. U-2 aircraft, operated by the Strategic Air Command, have been sampling stratospheric air at various altitudes along South to 70 deg North since 1957. Isotopes Incorporated, the principal contractor in this program, has analyzed over 2000 samples to date. Meteorological correlation has evolved a model of the stratosphere which accounts for the nonuniform deposition of fission products. The total stratospheric inventory of Sr/sup 90/ between November 1957 and November 1958 was found to be 0.9 megacurie. In spite of the large Russian injection in the fall of 1958, the Sr/sup 90/ stratospheric inventory for the period January 1959 to September 1959 averaged 0.7 megacurie.

ABS: The conclusion is reached that equatorial injections in the 1 to 5 megaton range have a stratospheric half-residence time of around 10 months, while injections in the polar and temperate regions have a stratospheric half-residence time of around 5 months. Larger yield tropical injections probably have residence times on the order of several years. A special study of W/sup 185/ injected during the HARDTACK operation has been made. Results show more details of the mode of stratospheric mixing and transport and support conclusions drawn from Sr/sup 90/ analysis. A definite seasonal effect upon the rate of departure of debris from the stratosphere is shown. The major portion of the stratospheric debris moves into the troposphere through the mid-latitude tropopause break. By Jan. 1, 1960, 87% of all material injected into the stratosphere will be on the ground.

ABS: Predictions of radiation dose from existing nuclear debris of biological significance are made. The total dose from all debris, even to infants born during peak activities, has probably been no more than 10% of MPC and by 1965 should be less than 1% of MPC.
(auth) AIR; AIRCRAFT; ATMOSPHERE; BIOLOGY; FALLOUT; FISSION PRODUCTS; MEASURED VALUES; METEOROLOGY; MIXING; NUCLEAR EXPLOSIONS; OSCILLATIONS; PROJECT HARDTACK; RADIATION DOSES; RADIOACTIVITY; SAFETY; SAMPLING; STRATOSPHERE; STRONTIUM 90; TRANSPORT; TUNGSTEN
185

AUTH: STEBBINS A.K.
CLSS: U
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)
DATE: 5912
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport
DESC: test instruments nuclear radiation fallout debris sampling collectors
DESC: SUMMARY EXPERIMENTAL
DESC: Solid Mechanics
DESC: Nuclear Weapon Environment fallout transfer
DESC: Nuclear Weapon Environment Fallout isotope concentrations
REPN: DASA 0531
SUJO: 2-223-100 ; 2-224-300 ; 4-140-000 ; 4-345-000 ; 9-200-000
TITL: THIRD ANNUAL HASP BRIEFING (U), 116 P (U)

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DASA 0531

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copy: 1 id: 73993-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0532B

ABS: The results of the HASP program to determine the role played by the stratosphere in the world-wide distribution of radioactive fall-out from nuclear weapons tests are presented. The program has operated since the fall of 1957. The sampling network using U-2 aircraft collected 10exp8 scf of air from 57 deg S to 71 N up to 70,000 ft. Ashcan data are used for upward extrapolation. IPC Paper 1478 of near 100% efficiency is used. Stratospheric matter sampled is in the 0.01 micron range. Stratospheric inventories of Sr-90 were calculated for the periods Nov. 1957 to Dec. 1958, Jan. to Aug 1959, and Sept. to Nov. 1959 to be, respectively, 0.95, 0.81, and 0.7 megacuries. Concentrations were greater in the Northern Hemisphere by a factor of 2 to 3 than in the Southern Hemisphere.

ABS: The Sr-90 maximum occurs in the equatorial regions around 90,000 ft and slopes down to around 70,000 ft in the polar regions. Little fractionation is noted in stratospheric debris. Cesium-137 to strontium-90 ratios are 1.8 to 0.5. A semiempirical application of Gaussin diffusion is described which suggests that hot clouds injected in the equatorial stratosphere spread in the North-South direction with mixing coefficients near 5×10^{exp8} cmsq/sec. Vertical mixing is slower with coefficients of 4×10^{exp3} and $2 \times$

10exp4 cmsq/sec suggested for tropical and polar regions, respectively. An Injection-Depletion model is offered which indicates that as much as 50% of the material Produced in 1-Mt ground-surface burst comes down in local fall-out.

ABS: Removal from the stratosphere occurs at different rates, depending on altitude and latitude of injection and season of the year. Effective half-residence times of 5, 10, and 20 months, respectively, for polar, low-equatorial and high-equatorial debris are suggested. Surface concentrations of Sr-90 are displayed as a function of latitude and time. The Northern Hemisphere carries three fourths of the burden. The maximum burden of Sr-90 is predicted to occur in 1961; however, concentrations in food have probably reached their maximum value. The radiation hazard from fall-out is summarized. Fallout has increased the dose man receives from the natural-radiation background by about 2%. (auth) DECADE; DIFFUSION; DISPERSIONS; DISTRIBUTION; FILTERS; FISSION PRODUCTS; INJECTION; LEVELS;

ABS: MIXING; NUCLEAR EXPLOSIONS; QUANTITY RATIO; RADIATION DOSES; RADIOACTIVITY; RESIDUES; SAMPLING; SEASONS; STANDARDS; STRATOSPHERE; STRONTIUM 90;

ADNO: 240642

AUTH: STEBBINS A.K.

CLSS: U

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 6006

DESC: HASP GLOBAL OBSERVATIONS STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY

DESC: Nuclear Weapon Environment fallout transfer L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

REPN: DASA 532 B

SUJO: 2-223-100 ; 2-224-300 ; 3-312-220

TITL: HIGH ALTITUDE SAMPLING PROGRAM-SPECIAL REPORT, TECHNICAL ANALYSIS REPORT (U),228 P (U)

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DASA 0532B

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INUM: DASA 0615

ADNO: 511467

CLSS: SRD 1

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 5908

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

DESC: Nuclear Weapon Effects structures aboveground buildings L9 MODERATE DAMAGE P14

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L9 P13

DESC: Nuclear Weapon Environment Airblast static overpressure

OVERPRESSURE.L1 BASE SURGE SURFACE WAVES

DESC: WATER SURFACE BURST HIGH YIELD ; THEORY
DESC: Nuclear Weapon Effects on animals thermal burns heating L9 P 13
DESC: Nuclear Weapon Effects flight systems airplanes L9 IMMOBILIZING
DAMAGE P 14
DESC: Nuclear Weapon Effects ship systems submarines L9 P 13
REPN: DASA 0615
SUJO: 2-225-100 ; 2-611-000 ; 3-111-000 ; 3-121-000 ; 3-251-000 ;
3-312-100 ; 3-313-100
TEMP: 73059
TITL: SUMMARY REPORT OF DEEP WATER EFFECTS OF VERY HIGH YIELD WEAPONS (U),
22 P, (SRD)

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DASA 0615

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1136
AUTH: MARTIN S.B.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 5904
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: THEORY
REPN: DASA 1136 ; USNRDL TR 352
SUJO: 3-246-000 ; 9-710-000
TITL: SIMPLE RADIANT HEATING METHOD FOR DETERMINING THE THERMAL
DIFFUSIVITY OF CELLULOSIC MATERIALS (U), 13 P (U)

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DASA 1136

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1142
AUTH: MARTIN S.B. ; RAMSTAD R.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 5905
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: EXPERIMENTAL
REPN: USNRDL TR 353 ; DASA 1142 ; NS 081 001
SUJO: 3-246-000
TITL: TEMPERATURE PROFILES IN THERMALLY IRRADIATED CELLULOSE ACCOMPANYING

ITS SPONTANEOUS IGNITION (U), 9 P (U)

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DASA 1142

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1148

ADNO: 227095

AUTH: DE LEHRY G.P. ; DERKSEN W.L. ; GARDE E.A. ; MONAHAN T.I. ; MIXTER

G.JR.

CLSS: U

CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)

DATE: 5905

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals thermal burns heating

REPN: TECH OBJ AW 7 ; DASA 1148

SUJO: 3-313-100

TITL: BURNS UNDER A HOT-WET UNIFORM SPACED FROM SKIN FOR NUCLEAR WEAPON
PULSES OF THERMAL RADIATION, FINAL REPORT (U), 30 P (U)

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DASA 1148

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1163

AUTH: GIVVONS M.G. ; NICHOLS J.R.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5912

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P1

DESC: SIMULATION (FLASH LAMP) FIREBALL TRANSMISSIVITY ; EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions thermal optical L5

DESC: Equation of State of Air L1 NTS VISIBLD AND NEAR 1R

REPN: DASA 1163

SUJO: 4-180-000 ; 4-841-000 ; 5-300-000

TITL: TRANSMISSION AND SCATTERING PROPERTIES OF A NEVADA DESERT ATMOSPHERE
(U), 36 P, (U)

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DASA 1163

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1173
ADNO: 237555
AUTH: CARTER J.A. ; MCGREEVY J.M.
CLSS: U
CORP: NAVY/MATERIAL LABORATORY (BROOKLYN-NY)
DATE: 6001
DESC: SUMMARY
DESC: Simulation Facilities Techniques thermal optical L1
REPN: AW 7 ; DASA 1173
SUJO: 4-280-000
TITL: RADIANT HEAT SOURCES EMPLOYED IN THERMAL RADIATION STUDIES (U) FINAL
REPORT, CIRCA 50 P, (U)

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DASA 1173

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1179
ADNO: 239955
AUTH: DERKSEN W.L. ; MONAHAN T.I. ; DE LHERY G.P.
CLSS: U
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)
DATE: 6001
DESC: Nuclear Weapon Effects on animals thermal burns heating
DESC: test instruments biomedical simulants phantoms models
DESC: EXPERIMENTAL
REPN: TECH OBJ AW 7 ; DASA 1179
SUJO: 3-313-100 ; 4-352-000
TITL: TEMPERATURE HISTORIES ASSOCIATED WITH THERMAL RADIATION BURNS TO
HUMAN SKIN, FINAL REPORT (U), 17 P (U)

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DASA 1179

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1180
AUTH: WOODWARD K.T. ; SCHRODT A.G. ; ANDERSON J.E. ; CLAYPOOL H.A. ;
HARTGERING J.B.
CLSS: U
CORP: ARMY/WALTER REED ARMY MEDICAL CENTER (WASHINGTON-D.C.)
DATE: 6000
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: EXPERIMENTAL
REPN: DASA 1180
SHOT: BRAVO

TSHO: SURFACE
SUJO: 3-312-220
TITL: DETERMINATION OF INTERNALLY DEPOSITED RADIOACTIVE ISOTOPES IN THE
MARSHALLESE PEOPLE BY EXCRETION ANALYSIS (U), 22 P (U)

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DASA 1180

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1186
AUTH: MARTIN S.B. ; RAMSTAD R.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6010
DESC: test instruments EM propagation atmospheric chemistry plasma
ionospheric diagnostics L1
REPN: USNRDL TR 467 ; DASA 1186
SUJO: 4-325-000
TITL: COMPACT TWO-STAGE GAS CHROMATOGRAPH FOR FLASH PYROLYSIS STUDIES (U),
14 P (U)

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DASA 1186

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1192
AUTH: GIBBONS M.G. ; LAUGHRIDGE F.I. ; NICHOLS J.R. ; KRAUSE N.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6008
DESC: NEVADA ; EXPERIMENTAL
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
REPN: USNRDL TR 461 ; DASA 1192
SUJO: 4-841-000 ; 5-200-000
TITL: TRANSMISSION AND SCATTERING PROPERTIES OF A NEVADA DESERT ATMOSPHERE
UNDER CLOUDY CONDITIONS (U), 29 P (U)

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DASA 1192

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INUM: DASA 1196
AUTH: SWANSON R.W.
CLSS: U
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.)
DATE: 6011
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: BIBLIOGRAPHY SUMMARY
REPN: DASA 1196
SUJO: 2-223-200 ; 2-224-140 ; 4-140-000
TITL: CONFERENCE ON DELAYED FALLOUT (U), 33 P (U)

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DASA 1196

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INUM: DASA 1202
ADNO: 252021
CLSS: U
CONN: DA 49 146 XZ 022
CORP: HUGHES AIR CRAFT COMPANY (CULVER CITY-CA)
DATE: 6102
DESC: SURVEY
DESC: test instruments nuclear radiation neutron L1
REPN: DASA 1202
SUJO: 4-342-000
TITL: STUDY OF NEUTRON-ELECTRON MULTIPLIERS, FINAL REPORT (U), 61 P (U)
TREE: 652

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DASA 1202

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INUM: DASA 1203
ADNO: 260375
AUTH: BAILY N.A. ; WIGGINS J.S.
CLSS: U
CONN: DA 49 146 XZ 016
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA)
DATE: 6104
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1

DESC: SUMMARY EXPERIMENTAL
DESC: test instruments nuclear radiation L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
REPN: DASA 1203
SUJO: 3-221-000 ; 3-224-000 ; 4-340-000
TITL: PHYSICAL PARAMETERS AFFECTING PERFORMANCE OF P-N JUNCTION DETECTORS
(U), FINALREPORT, 246 P (U)
TREE: 364

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DASA 1203

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1221
CLSS: U
CONN: NONR 3071 (00)
CORP: SCIENCE COMMUNICATION INCORPORATED (WASHINGTON-D.C.)
DATE: 6008
DESC: Composition Chemistry Atmosphere Reaction Rates
DESC: test instruments test hardware pressure stress
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: test instruments nuclear radiation proton alpha heavy particle
DESC: TABULAR
DESC: General Atmospheric Properties
REPN: DASA 1221
SUJO: 4-311-000 ; 4-327-000 ; 4-343-000 ; 5-100-000 ; 5-400-000
TITL: PROPERTIES OF THE UPPER ATMOSPHERE, ROCKETSONDE AND SATELLITE
MEASUREMENTS OF PRESSURE, TEMPERATURE, DENSITY, AND COMPOSITION
THROUGH EARLY 1960 (U), 30 P (U)

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DASA 1221

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1223
ADNO: 323821L
AUTH: DYCE R.B.
CLSS: SFRD 1
CONN: DA 49 146 XZ 054
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6101
DESC: Nuclear weapon test timing position firing data L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic

Perturbations L1
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: SURFACE OBSERVATION TROPOSPHERIC OBSERVATION STRATOSPHERIC
OBSERVATION LONG RANGE OBSERVATION ; SUMMARY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1
DESC: Nuclear Weapon Effects EM Propagation reflection clutter fireball
disturbed ionosphere L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
REPN: DASA 1223
SHOT: ARGUS I ; ARGUS II ; ARGUS III
TSHO: HI-ALT
SUJO: 2-211-000 ; 2-214-000 ; 2-215-000 ; 2-311-000 ; 2-321-100 ;
2-321-310 ; 2-510-000 ; 2-530-000 ; 4-820-600 ; 4-834-000
TEMP: 23475
TITL: PROJECT ARGUS, REPORT OF THIRD WORKING GROUP, 17 THROUGH 20 JANUARY
1961 (U), 97 P (SFRD)

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DASA 1223

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1224
AUTH: MEYEROTT R.E. ; LANDSHOFF R.K.M. ; HILLENDahl R.W. ; MAGEE J.L.
CLSS: SRD 1
CORP: LOCKHEED MISSILES AND SPACE COMPANY (SUNNYVALE-CA) ; UNIVERSITY OF
NOTRE DAME (SOUTH BEND-IN)
DATE: 6011
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: test instruments thermal temperature L1
DESC: SUMMARY EXPERIMENTAL
DESC: Composition Chemistry Atmosphere Reaction Rates L1
REPN: DASA 1224 ; LMSD 703048
SUJO: 1-210-000 ; 1-240-000 ; 4-384-000 ; 5-400-000
TEMP: 25084
TITL: THERMAL RADIATION PHENOMENA ASSOCIATED WITH NUCLEAR EXPLOSIONS IN
AIR (U), CIRCA 170 P (SRD)

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DASA 1224

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created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1255
AUTH: BROIDO A. ; MARTIN S.B.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6110
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects materials wood paper cellulose films
REPN: DASA 1255 ; USNRDL TR 536
SUJO: 3-246-000
TITL: EFFECT OF POTASSIUM BICARBONATE ON THE IGNITION OF CELLULOSE BY THERMAL RADIATION (U), 20 P (U)

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DASA 1255

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created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1256
AUTH: SCHLEIGER E.R. ; NICHOLS J.R. ; LAUGHRIDGE R.I.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6110
DESC: LOS ANGELES CALIFORNIA ; EXPERIMENTAL
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
REPN: DASA 1256 ; USNRDL TR 554
SUJO: 5-200-000
TITL: TRANSMISSION AND SCATTERING PROPERTIES OF THE LOS ANGELES, CALIFORNIA ATMOSPHERE IN AUGUST AND SEPTEMBER 1960 (U), 91 P (U)

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DASA 1256

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created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1275
ADNO: 273861
CLSS: U
CONN: DA 49 146 XZ 016
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CALIFORNIA)
DATE: 6202
DESC: THEORY EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
DESC: test instruments x-ray effects

REPN: DASA 1275
SUJO: 4-330-000 ; 4-341-000
TITL: RESEARCH STUDY OF SURFACE BARRIER DETECTORS, FINAL REPORT (U), 124 P
(U)

TREE: 651

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DASA 1275

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-1

ADNO: 267616

AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. ; SPAR J. ; WALTON A.

CLSS: U

CONN: DA 29 044 XZ 609

CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)

DATE: 6108

DESC: HASP STRATOSPHERIC DEBRIS ; SUMMARY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

DESC: test instruments nuclear radiation fallout debris sampling
collectors L1

REPN: DASA 1300 1

SUJO: 4-140-000 ; 4-345-000

TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), VOLUME 1, HASP PURPOSE AND
METHODS, FINAL REPORT, 216 P, (U)

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DASA 1300-1

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-4

ADNO: 267613

AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. SPAR J. ; WALTON A.

CLSS: U

CONN: DA 29 044 XZ 609

CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)

DATE: 6108

DESC: Nuclear Weapon Environment fallout transport

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 SR 90 W
185 CS 137 C 14

DESC: SUMMARY EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear Weapon Environment fallout transfer L1

REPN: DASA 1300 4
SUJO: 2-223-100 ; 2-224-200 ; 2-224-300 ; 2-225-100 ; 3-312-220
TITL: HIGH ALTITUDE SAMPLING PROGRAM, VOLUME 4, THE APPLICATION OF HASP
DATA (U), FINAL REPORT, 146 P (U)

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DASA 1300-4

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-5
ADNO: 267495
AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. ; SPAR J. ; WALTON A.
CLSS: U
CONN: DA 29 044 XZ 609
CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)
DATE: 6108
DESC: test instruments nuclear radiation fallout debris sampling
collectors L5
DESC: HASP STRATOSPHERIC OBSERVATION SR 90 RU 106 CS 137 CE 144 ; NEW
JERSEY ; EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 C 14
TRITIUM TROPOSPHERIC OBSERVATION SURFACE OBSERVATION
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility L1
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
REPN: DASA 1300 5
SUJO: 2-222-100 ; 2-222-300 ; 2-223-100 ; 4-345-000
TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), VOLUME 5, SUPPLEMENTARY HASP
STUDIES, 313 P, (U)

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DASA 1300-5

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1311
ADNO: 359894L
AUTH: DUDZIAK W.F. ; EWALD A.T. ; KLEINECKE D.C. ; KLINGENBERG E.W. ;
KOSTIGEN T.J.
CLSS: U
CCDE: TECH/OPS ; PUFF ; HANDE ; WEPH
CONN: DA 49 146 XZ 038
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6212
DESC: Radiation Transport L5
DESC: IONIZATION CODES ; SUMMARY CODE
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L5
DESC: Fluid Mechanics hydrodynamics L1 DESCRIPTION OF COMPUTER CODES
REPN: RM 62 TMP 48 ; DASA 1311
SUJO: 2-310-000 ; 2-321-100 ; 9-410-000 ; 9-600-000
TEMP: 83461
TITL: USEFUL HIGH-ALTITUDE NUCLEAR EFFECTS COMPUTER PROGRAMS (U), 52 P (C)

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DASA 1311

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1318
ADNO: 289567
AUTH: MEHLHORN H.A. ; CLARKE E.T. ; GOLD R. ; MCMATH R.
CLSS: U
CONN: DA 49 146 XZ 035
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)
DATE: 6209
DESC: Cross Sections gamma
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation

REPN: DASA 1318 ; TO B 62 13
SUJO: 2-223-200 ; 4-242-000 ; 4-341-000 ; 9-830-000
TITL: ATTENUATION OF POINT SOURCE GAMMA RADIATION IN SLABS, FINAL REPORT
(U), 71 P (U)

TREE: 411

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INUM: DASA 1327
ADNO: 342411
CLSS: U
CORP: DASA INFORMATION AND ANALYSIS CENTER (SANTA BARBARA-CALIFORNIA)
DATE: 6210
DESC: SURVEY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Nuclear Weapon Effects space systems
DESC: Nuclear Weapon Environment Induced Synchrotron Noise
REPN: DASIAC SR 004 ; DASA 1327
SHOT: STARFISH
TSHO: HI-ALT

SUJO: 2-217-000 ; 2-420-000 ; 3-114-000
TEMP: 81763
TITL: PROCEEDINGS, THE ARTIFICIAL RADIATION BELT (U), 381 P (S)

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DASA 1327

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INUM: DASA 1340
AUTH: PARKER W.J.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6212
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Environment Infrared Output rate L1 NEAR 1R
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: DATA EXPERIMENTAL
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1 NEAR UV
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 NEAR
1R
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
NEAR UV
REPN: DASA 1340 ; USNRDL TR 615
SHOT: BEE ; MOTH ; TESLA ; PRISCILLA
TSHO: LOW-ALT
SUJO: 1-320-000 ; 1-340-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ;
1-540-000
TITL: SPECTRAL DISTRIBUTION OF THE THERMAL RADIATION FROM THREE LOW YIELD
NUCLEAR DETONATIONS (U), 31 P, (U)

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DASA 1340

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INUM: DASA 1341

ABS: The nature of certain critical lesions seen after exposure to air blast is described. The early lethality characterizing primary and tertiary blast damage is emphasized along with the seriousness of injuries caused by blastenergized debris. Tentative criteria are developed to the end that different levels of environmental variations caused by blast phenomena could be quantitatively related to various levels of biological response. Using the free-field scaling laws and a mathematical model whereby translational velocities can be computed for animate and inanimate objects, the criteria are applied to nuclear explosions ranging in yield from 1 kt to 100 Mt. Thus, it is possible to specify, as a function of

yield, the hazard ranges inside which various blast injuries might occur.

ABS: At these ranges the associated levels of initial nuclear and thermal radiation were computed to allow at least some assessment of the relative importance of all the major hazards from nuclear detonations. (auth) ATMOSPHERE; BIOLOGY; COMPUTERS; EFFICIENCY; ENVIRONMENT; FALLOUT; MATHEMATICS; NUCLEAR EXPLOSIONS; RADIATION EFFECTS; RADIATION INJURIES; STANDARDS; THERMAL RADIATION; VARIATIONS

AUTH: WHITE C.S. ; BOWEN I.G. ; RICHMOND D.R.

CLSS: U

CONN: DA 49 146 XZ 055

CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
(ALBUQUERQUE-NM)

DATE: 6211

DESC: Nuclear Weapon Effects on animals blast shock L1

DESC: SUMMARY

REPN: DASA 1341

SUJO: 3-311-000

TITL: ENVIRONMENTAL MEDICAL ASPECTS OF NUCLEAR BLAST (U), 49 P, (U)

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DASA 1341

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INUM: DASA 1347

AUTH: GREENDALE A.E. ; LOVE D.L.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6201

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: EXPERIMENTAL

REPN: DASA 1347 ; USNRDL TR 607

SUJO: 4-345-000

TITL: RAPID RADIOCHEMICAL PROCEDURE FOR ANTIMONY AND ARSENIC (U), 16 P (U)

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INUM: DASA 1368 1

ADNO: 456185L

AUTH: SAXON D.S.

CLSS: U

CORP: E.H. PLESSET ASSOCIATES INCORPORATED (LOS ANGELES-CA)
DATE: 6206
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1 EARLY
TIME

DESC: Orbital Mechanics L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: THEORY
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1 EARLY TIME

REPN: PLESS 55148 ; DASA 1368 1
SUJO: 1-710-000 ; 1-720-000 ; 2-223-200 ; 2-223-420 ; 9-100-000
TITL: PROMPT GAMMA-RAYS (U), 53 P, (U)
TREE: 910

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DASA 1368 1

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1368 2
ADNO: 456183L
AUTH: ALEXANDROV I.
CLSS: U
CORP: E.H. PLESSET ASSOCIATES INCORPORATED (LOS ANGELES-CA)
DATE: 6210
DESC: THEORY
DESC: Orbital Mechanics L1
DESC: Nuclear Weapon Environment radiation decay L1
REPN: PLESS 55428 DRAFT ; DASA 1368 2
SUJO: 2-223-400 ; 9-100-000
TITL: THEORY OF FISSION AND FUSION NEUTRON SPECTRA (U), 24 P, (U)

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DASA 1368 2

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INUM: DNA 1251 1
ABS: The present volume, an indexed bibliography, is the first of the
series of reports that will comprise the compilation and evaluation.
The bibliography lists 206 reports which contain relevant
information. It makes available a ready reference to the sources
while the selection and the compilation of the data continues. The
volume consists of an index to references by fallout
characteristics, an index to references by authors names, and the
List of References.

ADNO: 349123

AUTH: KAWAHARA F.K. ; LEE H.
CLSS: C 1
CONN: DA 18 108 AMC 188 (A)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6106
DESC: Nuclear Weapon Environment radiation decay L1
DESC: Nuclear weapon test yield L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Phenomenology cloud shape size L1
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Environmental Conditions at Nuclear Weapon Test Site
DESC: Nuclear Weapon Environment Fallout Particles size distribution
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: Nuclear Weapon Environment dust moisture injection atmosphere
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: ROANOKE KAWEA ; BIBLIOGRAPHY
DESC: Nuclear weapon test timing position firing data L1
DESC: Nuclear Weapon Environment Fallout Formation mechanics
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Fallout Particles L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
REPN: DASA 1251 V.1 ; USNRDL 469
SHOT: TRINITY ; NAGASAKI (HIROSHIMA) ; WORLD WAR II ; (NAGASAKI) ; ABLE
(CROSSROADS) ; BAKER (CROSSROADS) ; X-RAY ; YOKE ; ZEBRA ; ABLE
(RANGER) ; BAKER (RANGER) ; EASY (RANGER) ; FOX (RANGER) ; BAKER 2
(R) ; (GREENHOUSE) ; EASY (GREENHOUSE) ; GEORGE (GH) ; ITEM ; ABLE
(BJ) ; BAKER (BJ) ; CHARLIE (BJ) ; DOG (BJ) ; EASY (BJ) ; SUGAR ;
UNCLE ; ABLE (TS) ; BAKER (TS) ; CHARLIE (TS) ; DOG (TS) ; EASY (TS)
; FOX (TS) ; GEORGE (TS) ; HOW ; MIKE ; KING ; ANNIE ; NANCY ; RUTH
; DIXIE ; RAY ; BADGER ; SIMON ; ENCORE ; HARRY ; GRABLE ; CLIMAX ;
ROMEO ; BRAVO ; UNION ; YANKEE ; NECTAR ; KOON ; WASP ; MOTH ; TESLA
; TURK ; HORNET ; BEE ; ESS ; APPLE I ; WASP PRIME ; HA ; POST ; MET
; APPLE II ; WIGWAM ; ZUCCHINI ; PROJECT 56 4 ; LACROSSE ; CHEROKEE
; ZUNI ; YUMA ; ERIE ; SEMINOLE ; FLATHEAD ; BLACKFOOT ; KICKAPOO ;
OSAGE ; INCA ; DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON
TSHO: LOW ALT ; UNDERWATER ; SURFACE ; WATER SURFACE ; UNDERGROUND.
SUJO: 1-240-000 ; 2-110-000 ; 2-221-000 ; 2-222-000 ; 2-222-300 ;
2-222-400 ; 2-223-000 ; 2-223-100 ; 2-223-200 ; 2-223-300 ;
2-223-400 ; 2-224-000 ; 2-224-140 ; 2-225-000 ; 2-225-100 ;
2-231-000 ; 2-625-000 ; 2-627-000 ; 4-834-000 ; 4-835-000 ;
4-836-000 ; 4-840-000 ; 4-841-000
TEMP: 47163
TITL: LOCAL FALLOUT FROM NUCLEAR TEST DETONATIONS; VOL. 1, INDEXED
BIBLIOGRAPHY OF UNITED STATES AND BRITISH DOCUMENTS ON
CHARACTERISTICS OF LOCAL FALLOUT (U), 230 P (C)

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DNA 1251 1

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INUM: EMP 2-2-27

ABS: The gamma rays from a nuclear explosion in space Compton-scatter electrons near the surface of the device or in a surrounding material shield. The scattered electrons leave the surface and are accelerated back toward it by the positively charged matter. Provided they are asymmetrically distributed, the accelerating electrons radiate an electromagnetic signal. The electron motions are analyzed, the electromagnetic signal is estimated, and its detectability is discussed. For a typical nuclear explosion, the electromagnetic signal is independent of the yield and contains frequencies up to 10 to 100 megacycles per second and thus will penetrate the ionosphere.

ABS: Taking into account dispersion by the ambient interplanetary plasma (approx. equal 10 squared electrons/cc), the peak electric field strength at a distance R kilometers from the explosion is approx. equal 10 to the 4th, R to the -3/2 volts/meter. The pulse length is approx. equal 10 to the -10 R sec. If only background cosmic noise limits detectability of the signal, the maximum detectable range is about 10 to the 6th km.

AUTH: Karzas W.J. ; Latter R.

CLSS: U

CORP: Rand Corp. (Santa Monica, CA)

DATE: 6110

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP

DESC: nuclear test detection EMP earth current detection

DESC: THEORY

EMPF: 270 ; 221

REPN: RM 2849 AFT

TSHO: HI-ALT

SUJO: 2-510-000 ; 4-914-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48

(U)

TITL: Electromagnetic Radiation from a Nuclear Explosion in Space (U), 35

P(U)

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EMP 2-2-27

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copy: 1 id: 45973-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: FWE 198

AUTH: JANISCH D.B.B.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5907
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
REPN: FWE 198 ; AWRE T 6/58
SHOT: BRITISH (57-09-25)
TSHO: LOW-ALT
SUJO: 2-223-200 ; 4-346-000
TEMP: B8911 ; A8010
TITL: USE OF RADIAC SURVEY METERS NOS. 2 AND 3 2N AERIAL SURVEYS OF
RADIOACTIVE AREAS (U), 16 P., (C)
TREE: 655

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FWE 198

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 199
AUTH: EVANS D.J.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5904
DESC: Nuclear Weapon Effects on animals blast shock translation L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
EFFT: THERMAL ; AIR-BLAST
REPN: FWE 199 ; AWRE T 17/58
SHOT: BRITISH (56-09-27)
TSHO: LOW-ALT
SUJO: 3-311-200 ; 3-313-100
TEMP: B8912 ; A8062
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL
RADIATION FROM A NUCLEAR EXPLOSION; PT. 1, GENERAL INTRODUCTION (U),
22 P., (C)

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FWE 199

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copy: 1 id: 82537-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 200
AUTH: GORDON D.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)

DATE: 5905
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects materials fibers textiles L1
EFFT: THERMAL
REPN: FWE 200 ; AWRE T 12/58
SHOT: BRITISH (56-09-27)
TSHO: LOW-ALT
SUJO: 3-242-000
TEMP: B8913 ; A8061
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL
RADIATION FROM A NUCLEAR EXPLOSION; PT. 2, EFFECTS ON TEXTILES (U),
37 P., (C)

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FWE 200

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created: 12/27/1991 type: REPORT permanent

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INUM: FWE 201
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5905
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Nuclear Weapon Effects materials coatings laminates L1
EFFT: THERMAL
REPN: FWE 201
SHOT: BRITISH (56-09-27)
TSHO: LOW-ALT
SUJO: 3-244-000 ; 3-245-000
TEMP: B8914 ; A8057
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL
RADIATION FROM A NUCLEAR EXPLOSION; PTS. 3, 4, AND 5, EFFECTS ON
PLASTICS, RUBBERS, AND PAINTS (U), 64 P., (C)

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FWE 201

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 202
AUTH: HAND N.E.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5905
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: Nuclear Weapon Effects materials fibers textiles L1
DESC: EXPERIMENTAL

EFFT: THERMAL
REPN: FWE 202 ; AWRE T 11/58
SHOT: BRITISH (56-09-27)
SUJO: 3-242-000 ; 3-313-100
TEMP: B8915 ; A8058
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL
RADIATION FROMA NUCLEAR EXPLOSION; PT. 6, EFFECTS ON SERVICE
UNIFORMS (U), 24 P., (C)

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FWE 202

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copy: 1 id: 82540-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 203
AUTH: EVANS D.J.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5905
DESC: Nuclear Weapon Effects supply containers L1
DESC: Nuclear Weapon Effects materials fibers textiles L1
DESC: EXPERIMENTAL
EFFT: THERMAL ; AIR-BLAST
REPN: FWE 203 ; AWRE T 29/58
SHOT: BRITISH (56-09-27)
TSHO: LOW-ALT
SUJO: 3-172-000 ; 3-242-000
TEMP: B8916 ; A8064
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL
RADIATION FROMA NUCLEAR EXPLOSION; PT. 7, EFFECTS ON PACKAGING
MATERIALS (U), 20 P., (C)

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FWE 203

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 204
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)
DATE: 5906
DESC: Nuclear Weapon Effects flight systems airplanes structures L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects supply personnel protection equipment L1
EFFT: THERMAL ; AIR-BLAST
REPN: FWE 204 ; AWRE T 28/58
SHOT: BRITISH (56-09-27)
TSHO: LOW-ALT

SUJO: 3-111-100 ; 3-173-500
TEMP: B8917 ; A8063
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL RADIATION FROM A NUCLEAR EXPLOSION; PT. 9 (A-C), EFFECTS ON CHEMICAL WARFARE EQUIPMENT, FLAME-THROWER FUEL, AND AIRCRAFT WINDSCREENS (U), 30 P., (C)

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FWE 204

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copy: 1 id: 82542-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 218
AUTH: BRINKWORTH B.J.
CLSS: C
CORP: ROYAL AIRCRAFT ESTABLISHMENT (UK)
DATE: 5906
DESC: Nuclear Weapon Effects flight systems airplanes structures L1 SKIN TEMPERATURE RISE

EFFT: THERMAL

REPN: FWE 218

SUJO: 3-111-100

TEMP: B8931 ; A7860

TITL: SKIN TEMPERATURE RISE IN AN AIRCRAFT EXPOSED TO THERMAL RADIATION FROM A NUCLEAR EXPLOSION (U), 24 P., (C)

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FWE 218

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 236
AUTH: BRINKWORTH B.J.
CLSS: C
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH, ENGLAND)
DATE: 5911
DESC: THEORY
DESC: Nuclear Weapon Effects flight systems airplanes structures L1
DESC: Nuclear Weapon Environment Thermal Output source strength total intensity L1

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1

EFFT: THERMAL

REPN: RAE R MECH ENG 21 ; FWE 236

SUJO: 1-210-000 ; 3-111-100 ; 5-200-000

TEMP: B8946 ; A8006

TITL: SOME EFFECTS OF THE ENVIRONMENT ON THE POLAR DISTRIBUTION AROUND THE DELIVERING AIRCRAFT OF THERMAL RADIATION FROM A NUCLEAR EXPLOSION (U), 34 P., (C)

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FWE 236

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 240
CLSS: U
CORP: ADMIRALTY RESEARCH LAB. (TEDDINGTON MIDDLESEX, ENGLAND)
DATE: 5906
REPN: FWE 240
TITL: ATMOSPHERIC TRANSMISSION OF THERMAL RADIATION (U), 24 P., (U)

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FWE 240

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copy: 1 id: 82578-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 245
AUTH: SMITH E.G.
CLSS: C
CORP: ARMY OPERATIONAL RESEARCH GROUP (UK)
DATE: 6001
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
FLASHBLINDNESS
DESC: SUMMARY
REPN: FWE 245 ; AORG 18/58
SUJO: 3-312-200
TEMP: B8954 ; A7915
TITL: TACTICAL IMPLICATIONS OF FLASH BLINDNESS AND CHORIORETINAL BURNS
CAUSED BY NUCLEAR EXPLOSIONS; PT. 1, FLASH BLINDNESS (U), 42 P., (C)

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FWE 245

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 248
AUTH: FRAME J.W.
CLSS: SFRD
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH, ENGLAND)
DATE: 6001
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SUMMARY
DESC: Nuclear Weapon Effects flight systems airplanes crew L1

REPN: FWE 248 ; RAE TECH MEMO ARM 1728
SUJO: 3-111-500 ; 3-312-100
TEMP: B8957 ; A8705
TITL: INCAPACITATION OF AIRCREW BY IRRADIATION (U), 9 P., (SFRD)

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FWE 248

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copy: 1 id: 82586-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 250
CLSS: S
CORP: ESTABLISHMENTS OF THE UNITED KINGDOM ATOMIC ENERGY AUTHORITY AT
HARWELL AND ALDERMASTON (ALDERMASTON, BERKS, UK)

DATE: 6001

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
INSIDE TANKS

DESC: Cross Sections gamma L1

DESC: Cross Sections neutron L1

DESC: THEORY

REPN: FWE 250

SUJO: 3-312-100 ; 9-820-000 ; 9-830-000

TEMP: B8959 ; A8792

TITL: PAPERS PRESENTED BY U.K. DELEGATES TO FORM BASIS FOR DISCUSSIONS ON
NUCLEAR RADIATION EFFECTS ON ARMOURED FIGHTING VEHICLES
OCTOBER/NOVEMBER 1959 (U), 40 P., (S)

TREE: 411 ; 412

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FWE 250

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created: 12/27/1991 type: REPORT permanent

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INUM: FWE 252
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, ENGLAND)

DATE: 6007

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

DESC: EXPERIMENTAL

EFFT: EMP

EMPF: 363

LA: UK

REPN: FWE 252

SUJO: 3-162-000

TEMP: B8961 ; A7917

TITL: EFFECTS OF ELECTROMAGNETIC RADIATION ON NUCLEAR WEAPON FUZING
COMPONENTS (U), 10 P., (C)

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FWE 252

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 253
AUTH: STEVENSON D.G.
CLSS: U
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS., ENGLAND)
DATE: 6103
REPN: FWE 253 ; AWRE 0 52/60
TITL: RECOMMENDED REAGENTS FOR RADIOLOGICAL DECONTAMINATION (2ND EDITION)
(U), 56 P., (U)

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FWE 253

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copy: 1 id: 82591-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1601
AUTH: COOK T.B. ; KRAMM M.L. ; MILLER G.R.
CLSS: SRD 1
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 5901
DESC: EXTRA STRATOSPHERIC OBSERVATION LONG RANGE OBSERVATION STRATOSPHERIC
OBSERVATION ; EXPERIMENTAL SUMMARY
DESC: Nuclear weapon test timing position firing data L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1 RF PROPAGATION
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L1 RF PROPAGATION
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1 RF PROPAGATION
DESC: Nuclear Weapon Environment X-ray Output rate L1
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise L1 RF PROPAGATION
DESC: Nuclear Test Simulation Field Programs experiment design engineering
layout performance program documents L1 RF PROPAGATION

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris L1 RF PROPAGATION
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: Meteorology L1 WIND P 134
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 SURFACE
OBSERVATION
DESC: Nuclear weapon safety L1
REPN: ITR 1601
PROJ: PROGRAM 32
SHOT: TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-210-000 ; 1-240-000 ; 1-610-000 ;
1-640-000 ; 1-710-000 ; 1-720-000 ; 1-740-000 ; 2-321-100 ;
2-611-000 ; 4-140-000 ; 4-345-000 ; 4-820-000 ; 4-820-300 ;
4-820-400 ; 4-820-500 ; 4-822-000 ; 4-823-000 ; 4-834-000 ;
4-838-000 ; 5-500-000
TEMP: 23477
TITL: HIGH ALTITUDE MEASUREMENTS, OPERATION HARDTACK, PROGRAM 32 (U), 288
P (SRD)
TREE: 900
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ITR 1601
.endblock
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copy: 1 id: 84278-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: ITR 1652
AUTH: COSENZA C.J. ; BARNETT F.E.
CLSS: SRD 1
CORP: AIR FORCE/AIR DEVELOPMENT CENTER (WRIGHT-PATTERSON AFB OH)
DATE: 5903
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: X-RAY THERMAL NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY
EXPERIMENTAL
DESC: Nuclear Weapon Effects missile systems strategic L1
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
REPN: ITR 1652
PROJ: 8.6
SHOT: TEAK ; ORANGE ; CACTUS
TSHO: HI-ALT ; SURFACE
SUJO: 3-112-100 ; 4-820-300 ; 4-820-500
TEMP: 23482

TITL: VULNERABILITY OF MISSILE STRUCTURES TO NUCLEAR DETONATIONS,
OPERATION HARDTACK, PROJECT 8.6 (U), 135 P (SRD)

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ITR 1652

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copy: 1 id: 84306-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1675

AUTH: REED J.W. ; BAKER D.J. ; JONES E.A. ; BJORKLAND J.A.

CLSS: SRD 1

CORP: AIR FORCE/CAMBRIDGE RESEARCH CENTER (BEDFORD-MA) ; COOK ELECTRIC
COMPANY (CHICAGO-IL)

DATE: 5901

DESC: Nuclear Weapon Environment Thermal Output rate L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L9 P 13
SCALING LAWS

DESC: EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5

DESC: Nuclear Test Simulation Field Programs experiment design thermal L5

DESC: Nuclear Weapon Environment Infrared Output rate L1

DESC: Nuclear Weapon Environment Visible Output rate L1

DESC: Nuclear Weapon Environment Ultraviolet Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Ultraviolet Output rate L1

DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1

REPN: ITR 1675

PROJ: 8.8

SHOT: QUAY ; HAMILTON ; RIO ARRIBA ; SOCORRO ; WRANGELL ; RUSHMORE ;
SANFORD ; DE BACA ; MAZAMA ; HUMBOLDT ; SANTA FE

TSHO: LOW-ALT

SUJO: 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-340-000 ; 1-410-000 ;

1-440-000 ; 1-510-000 ; 1-540-000 ; 2-110-000 ; 4-820-600 ;

4-820-700

TEMP: 23551

TITL: THERMAL RADIATION FROM LOW-YIELD BURSTS, OPERATION HARDTACK, PROJECT
8.8 (U), 40 P (SRD)

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ITR 1675

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copy: 1 id: 84316-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1728
AUTH: CLARK A. ; ANNIS M.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 5901
DESC: THEORY
DESC: Nuclear Weapon Effects materials metals alloys L1
EFFT: X-RAY
REPN: ITR 1728 ; WT 1728 (ITR)
SHOT: LOGAN
TSHO: UG-CONTAINED
SUJO: 3-243-000
TEMP: A8100
TTTL: ANALYSIS OF PASSIVE EXPERIMENT TO MEASURE X-RAY INDUCED IMPULSES;
OPERATION HARDTACK PRELIMINARY TEST REPORT, PROJECT 25.2 (U), 24 P.,
(SRD)

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ITR 1728

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copy: 1 id: 84330-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1816
AUTH: NORDYKE M.D.
CLSS: U
CCDE: UNEC
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6208
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1 IN
BASALT
DESC: EXPERIMENTAL
REPN: ITR 1816 ; WT 1816 (ITR)
SHOT: DANNY BOY
TSHO: UG-VENTED
SUJO: 2-625-000
TTTL: CRATER STUDIES; OPERATION NOUGAT, PROJECT DANNY BOY, PROJECT
1.9/26.2 (U), 30 P., (U)

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ITR 1816

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copy: 1 id: 84332-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD391788
ADNO: AD 391788
AUTH: LAURINO R.K. ; SCHULTZE D.P. ; VAN DEN BERGHE G.
CLSS: C
CONN: NS 083 001 ; SF 011 05 08

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6003
REPN: USNRDL TR 407 ; AW 5 C
TEMP: 67105
TITL: DECISION PROCEDURES FOR SHIPBOARD RADIOLOGICAL DEFENSE (U), CIRCA
125, (U)

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MAD391788

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copy: 1 id: 85693-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD512051L
ADNO: 512051L
AUTH: TOMNOVEC F.M.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6001
REPN: NRDL TR 393
TEMP: 79060
TITL: CONTRIBUTION OF S1 SUPER 28 (N,P) A1 SUPER 28 REACTION TO INDUCED A1
SUPER 27 (N,GAMMA) A1 SUPER 28 RADIATION FIELDS FROM ATOMIC WEAPONS
(U), 24 P., (SRD)

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MAD512051L

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copy: 1 id: 85736-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0104
AUTH: LOMBARD D.B. ; POWER D.V.
CLSS: U
CCDE: UNEL
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6203
DESC: test instruments test hardware pressure stress L5
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: test instruments test hardware velocity measurement L5
DESC: CLOSE IN OBSERVATION FEW DATA ; EXPERIMENTAL
REPN: PNE 0104
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 2-622-000 ; 2-623-000 ; 4-311-000 ; 4-315-000
TITL: CLOSE-IN SHOCK STUDIES, (U), FINAL REPORT, 26 P (U)

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PNE 0104

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0106
AUTH: BENNETT W.P. ; SMITH B.L. ; ROBERTS D.W.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6203
DESC: test instruments thermal temperature L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: UG OBS ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1
REPN: PNE 0106
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-629-000 ; 4-384-000
TITL: GNOME POSTSHOT TEMPERATURE AND RADIATION STUDIES, (U), PROJECT
GNOME, PRELIMINARY REPORT, 41 P (U)

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PNE 0106

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copy: 1 id: 88850-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0113
AUTH: LINDNER M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6202
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 P.25
DESC: Orbital Mechanics L1
REPN: PNE 0113
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 2-223-200 ; 9-100-000
TITL: RESONANCE NEUTRON ACTIVATION MEASUREMENTS, PROJECT GNOME, (U),
PRELIMINARY REPORT

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PNE 0113

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0126
CLSS: U
CORP: WEATHER BUREAU/DEPARTMENT OF COMMERCE (LAS VEGAS-NV)
DATE: 6204
DESC: Nuclear Weapon Test safety L1
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1
DESC: SUMMARY
DESC: Nuclear Energy Peaceful Applications safety aspects L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
LONG RANGE OBSERVATION
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
INTERMEDIATE RANGE OBSERVATION
REPN: PNE 0126
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-225-100 ; 3-480-500 ; 4-841-000 ; 4-856-000
TITL: WEATHER AND SURFACE RADIATION PREDICTION ACTIVITIES (U), FINAL
REPORT FOR PROJECT GNOME, 20 P, (U)

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PNE 0126

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0132
ADNO: PNE 132 F
AUTH: PLACAK O.R.
CLSS: U
CORP: PUBLIC HEALTH SERVICE (LAS VEGAS-NV)
DATE: 6100
DESC: Nuclear Weapon Test safety L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Energy Peaceful Applications safety aspects L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Effects supply food water L1 MILK
DESC: Nuclear Energy Peaceful Applications radiation problems L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: INTERMEDIATE RANGE LONG RANGE ; TABULAR
REPN: PNE 0132
SHOT: GNOME
TSHO: UG CONTAINED
SUJO: 2-223-100 ; 2-223-200 ; 2-223-300 ; 3-171-000 ; 3-480-400 ;
3-480-500 ; 4-856-000
TITL: OFF-SITE RADIOLOGICAL SAFETY REPORT (U), PROJECT GNOME, CARLSBAD,
NEW MEXICO, 100 P (U)

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PNE 0132

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0133
CLSS: U
CORP: REYNOLDS ELECTRIC AND ENGINEERING CO., INC.
DATE: 6112
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: PLOWSHARE ; EXPERIMENTAL
REPN: PNE 0133
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 3-312-220
TITL: ON-SITE RADIOLOGICAL SAFETY REPORT; PROJECT GNOME (U), 28 P., (U)

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PNE 0133

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copy: 1 id: 88870-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0200
ADNO: A076367
AUTH: PLACAK O.R.
CLSS: U
CORP: PUBLIC HEALTH SERVICE, OFF-SITE RADIOLOGICAL SAFETY ORGANIZATION
DATE: 6212
DESC: PLOWSHARE ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout arrival time L1 CLOUD PASSAGE
DESC: Nuclear Weapon Environment fallout transport L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: PNE 200F
SHOT: SEDAN
TSHO: SURFACE
SUJO: 2-223-100 ; 2-223-200 ; 2-223-300 ; 2-223-420 ; 2-224-200 ;
2-225-300
TITL: PLOWSHARE PROGRAM; FINAL OFF-SITE REPORT OF THE PROJECT SEDAN EVENT
JULY 6, 1962 (U), 85 P., (U)

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PNE 0200

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copy: 1 id: 88873-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0203
CLSS: U
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO INC (MERCURY NEV)
DATE: 6210
REPN: PNE 0203
TITL: SEDAN EVENT, ON-SITE RADIOLOGICAL SAFETY REPORT (U), 62 P., (U)
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PNE 0203
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copy: 1 id: 88876-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0235
AUTH: WARNER S.E.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6212
DESC: Environmental Conditions at Nuclear Weapon Test Site geology L5
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Test Simulation Field Programs experiment design ground
shock L5
REPN: PNE 235 F
SHOT: SEDAN
TSHO: UG-VENTED
SUJO: 2-622-000 ; 4-820-100 ; 4-842-000
TITL: SEISMIC VELOCITY STUDY (U), PROJECT SEDAN, PROJECT 2.05, 48 P (U)
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PNE 0235
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copy: 1 id: 88897-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POIR 2013
AUTH: KINCH J.W. ; JENKINS R.W. JR.
CLSS: SRD 1
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6209
REPN: POIR 2013
TEMP: 29130
TITL: GAMMA RADIATION MEASUREMENTS, OPERATION DOMINIC, FISH BOWL SERIES,
PROJECT OFFICERS INTERIM REPORT, PROJECT 2.2 (U), 30 P (SRD)
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POIR 2013

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copy: 1 id: 89169-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2209
AUTH: CALDWELL P.A. ; WIMENITZ F.N. ; LACKEY J.G.
CLSS: SRD 1
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.) ; E G AND G
INCORPORATED (SANTA BARBARA-CA)
DATE: 6208
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L1
DESC: CLOSE-IN OBSERVATION INTERMEDIATE OBSERVATION ; EXPERIMENTAL
REPN: POIR 2209
PROJ: 2.1
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 4-820-400
TEMP: 27549
TITL: INITIAL RADIATION MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,
PRELIMINARY REPORT, PROJECT 2.1 (U), 54 P (SRD)
TREE: 641

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POIR 2209

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copy: 1 id: 89229-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2210
AUTH: KRONENBERG S.
CLSS: SRD 1
CORP: ARMY/SIGNAL RESEARCH AND DEVELOPMENT LABORATORY (FORT MONMOUTH-NJ)
DATE: 6210
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: CLOSE-IN OBSERVATION ; EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L9 APPENDIX
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
REPN: POIR 2210
PROJ: 2.2
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 1-110-000 ; 1-120-000 ; 1-140-000 ; 4-342-000 ; 4-820-300
TEMP: 29203
TITL: NEUTRON DOSE RATE MEASUREMENT, OPERATION SUN BEAM, SHOT SMALL BOY,

PROJECT OFFICERS INTERIM REPORT, PROJECT 2.2 (U), 98 P (SRD)

TREE: 920

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POIR 2210

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copy: 1 id: 89230-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2215

AUTH: LARIVIERE P.D. ; SARTOR J.D. ; LARSON K.H.

CLSS: SRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;
UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6209

REPN: POIR 2215

TEMP: 29126

TITL: FALLOUT COLLECTION AND GROSS SAMPLE ANALYSIS, OPERATION SUN BEAM,
SHOT SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 2.9 (U), 87
P (SRD)

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POIR 2215

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copy: 1 id: 89231-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2217

AUTH: LARIVIERE P.D. ; LEE H. ; LARSON K.H.

CLSS: CFRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;
UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6209

REPN: POIR 2217

TEMP: 29006

TITL: IONIZATION RATE MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,
PROJECT OFFICERS INTERIM REPORT, PROJECT 2.11 (U), 30 P (CFRD)

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POIR 2217

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2220

AUTH: SHUMWAY B.W. ; TOMOEDA S. ; BUSER W.H. ; FRANK A.L. ; MILLER W.G. ;
TAYLOR R.A. ; JANAKOS N. ; FONG F.T. ; BRANDENBURG K.W.

CLSS: O

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6208
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L5
DESC: EXPERIMENTAL
DESC: Cross Sections gamma L1
REPN: POIR 2220
PROJ: 2.14
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 4-820-400 ; 9-830-000
TITL: SHIELDING EFFECTIVENESS OF COMPARTMENTED STRUCTURES IN A FALLOUT
FIELD, OPERATION SUN BEAM, SHOT SMALL BOY, PRELIMINARY REPORT,
PROJECT 2.14 (U), 39 P (OUO)

TREE: 411

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POIR 2220

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copy: 1 id: 89234-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2235
AUTH: JONES M.S. JR. ; PROUTY T.P. ; WHARTON C.B. ; KATZ J.E.
CLSS: SRD 1
CORP: MHD RESEARCH INCORPORATED (NEWPORT BEACH-CA) ; LAWRENCE RADIATION
LABORATORY (LIVERMORE-CA)
DATE: 6211
REPN: POIR 2235
TEMP: 29420
TITL: AIR CONDUCTIVITY MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,
PROJECT OFFICERS INTERIM REPORT, PROJECT 6.11 (U), 82 P (SRD)

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POIR 2235

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copy: 1 id: 89248-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2238
AUTH: HENDERSON W.D. ; BUIES R.E. ; ROBB R.E.
CLSS: SFRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; GENERAL
ELECTRIC COMPANY/RADIATION EFFECTS OPER (SYRACUSE-NY)
DATE: 6211
REPN: POIR 2238
TEMP: 29378
TITL: PRAGMATIC INSTRUMENTAL MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL
BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 7.1, SUBPROJECTS
7.1.1, 7.1.2, 7.1.3 (U), 119 P (SFRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2239

AUTH: GLENN D.C.

CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; NORTHROP CORPORATION (NEWBURY PARK-CA)

DATE: 6211

REPN: POIR 2239

TEMP: 29413

TITL: TRANSIENT RADIATION EFFECTS MEASUREMENTS GUIDANCE SYSTEM CIRCUITS, OPERATION SUN BEAM, SHOT SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 7.1.4 (U), 122 P (SRD)

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POIR 2239

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copy: 1 id: 89250-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2240

AUTH: RIGGLE W.L. ; HENRY R.L. ; MORRIS R.E. ; STOKES J.R.

CLSS: SRD 1

CORP: ARMY/ORDNANCE TANK-AUTOMOTIVE COMMAND (DETROIT ARSENAL-MI) ; GD/FORT WORTH DIVISION (FORT WORTH-TX)

DATE: 6208

DESC: Nuclear Test Simulation Field Programs experiment design surface vehicles structures) L5

DESC: Cross Sections gamma L1

DESC: Cross Sections neutron L1

DESC: GAMMA NEUTRON BLAST AND SHOCK ; EXPERIMENTAL

DESC: blast shock Protection L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1

REPN: POIR 2240

PROJ: 7.2

SHOT: SMALL BOY

TSHO: SURFACE

SUJO: 3-151-000 ; 4-829-200 ; 9-820-000 ; 9-830-000 ; 9-860-000

TEMP: 27617

TITL: EXPERIMENTAL CONFIRMATION OF THEORETICAL DEVELOPMENT ON RADIOLOGICAL ARMOR, OPERATION SUN BEAM, SHOT SMALL BOY, PRELIMINARY REPORT, PROJECT 7.2 (U), 66 P (SRD)

TREE: 411 ; 412

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POIR 2240

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copy: 1 id: 89251-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2266
AUTH: BOUTON E.H. ; HARDIN L.M. ; MORGENTHAU M. ; WILSEY E.F. ; POWELL
W.G. ; CONWAYB.J.
CLSS: SRD 1
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6209
REPN: POIR 2266
TEMP: 29129
TITL: RADIOLOGICAL SURVEYS, OPERATION SUN BEAM, SHOT LITTLE FELLER I, II,
JOHNIE BOY, AND SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT
2.8 (U), 127 P (SRD)

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POIR 2266

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copy: 1 id: 89260-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2269
AUTH: SCHUMCHYK M.J. ; MALONEY J.C. ; SMITH R.J.
CLSS: C
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6208
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
REPN: POIR 2269
SHOT: LITTLE FELLER-II
TSHO: SURFACE
SUJO: 4-821-000
TEMP: 63016
TITL: TRANSIT RADIATION DOSE RATE, OPERATION SUN BEAM, SHOT JOHNIE BOY AND
LITTLE FELLER II, PRELIMINARY REPORT, PROJECT 2.20 (U), 22 P (C)

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POIR 2269

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2270
AUTH: MOBLEY T.S. ; DAMEWOOD L.A. ; PENIKAS V.T.
CLSS: SFRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6208
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
REPN: POIR 2270
SHOT: LITTLE FELLER-I ; LITTLE FELLER-II
TSHO: SURFACE
SUJO: 1-110-000 ; 1-710-000 ; 3-312-100
TEMP: 61947
TITL: TISSUE DOSIMETRY, OPERATION SUN BEAM, SHOT LITTLE FELLER I AND II,
PRELIMINARY REPORT PROJECT 4.1 (U), 29 P (SFRD)

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POIR 2270

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2272
AUTH: BUTLER K.L.
CLSS: S
CORP: NAVY/NAVAL MISSILE CENTER (POINT MUGU-CA)
DATE: 6209
REPN: POIR 2272
TEMP: 29157
TITL: AIRBORNE E-FIELD RADIATION MEASUREMENTS OF ELECTROMAGNETIC PULSE
PHENOMENA, OPERATION SUN BEAM, SHOT LITTLE FELLER II AND SMALL BOY,
PROJECT OFFICERS INTERIM REPORT, PROJECT 7.16 (U), 26 P (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2273
AUTH: LINDSTEN D.C.
CLSS: O
CORP: ARMY/ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES (FORT
BELVOIR-VA)
DATE: 6208
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility L1 WATER FALLOUT
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Nuclear Weapon Effects supply food water L1 WATER FALLOUT
REPN: POIR 2273

PROJ: 7.17
SHOT: SMALL BOY ; JOHNNY BOY ; LITTLE FELLER I ; LITTLE FELLER II
TSHO: SURFACE
SUJO: 2-222-100 ; 3-171-000 ; 3-244-000
TITL: RADIOLOGICAL WATER DECONTAMINATION STUDY, OPERATION SUN BEAM, SHOT
LITTLE FELLER I, II, JOHNNIE BOY, AND SMALL BOY, PRELIMINARY REPORT,
PROJECT 7.17 (U), 47 P (OUO)

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POIR 2273

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copy: 1 id: 89264-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: R 63-1-079
AUTH: MCCORMAC B.
CLSS: SRD
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)
DATE: 6210
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L5
DESC: SUMMARY
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000
SYMJ: CONTAINED IN HIGH ALTITUDE NUCLEAR EFFECTS REVIEW 63-1 (U), PP 7986
TITL: SYMPOSIUM ON THE ARTIFICIAL RADIATION BELT (U), 7 P, (SRD)

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R 63-1-079

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copy: 1 id: 90670-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: R 63-1-087
AUTH: JOHNSON O.L. ; LADSON R.A.
CLSS: SRD
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)
DATE: 6212
DESC: TABULAR SUMMARY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1 JOHNSTON I
SUJO: 5-800-000
SYMJ: CONTAINED IN HIGH ALTITUDE NUCLEAR EFFECTS REVIEW 63-1 (U), PP
87-92, (SRD)
TITL: MAGNETIC FIELD LINES IN THE VICINITY OF JOHNSTON ISLAND (U), 5 P,
(SRD)

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R 63-1-087

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copy: 1 id: 90671-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: WT 0120-32
ADNO: 341044L
CLSS: SRD
CORP: NAVAL RESEARCH LABORATORY (WASH., DC)
DATE: 5904
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 TEMPERATURE
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: EXPERIMENTAL THEORY
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
VISIBLE
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
REPN: WT 0120
PROJ: 1.3
SHOT: GEORGE (GREENHOUSE) ; ITEM ; EASY (GREENHOUSE) ; DOG (GH)
TSHO: LOW-ALT
SUJO: 1-210-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ; 1-540-000 ;
2-110-000 ; 2-130-000 ; 2-214-000 ; 5-200-000
TEMP: C0242 ; 45090
TITL: Operation Greenhouse Scientific Director's Report, Annex 1.3,
Thermal Radiation Measurements; Pt. 2, Total Thermal Radiation (U),
11 P., (SRD)
ABS: The radiant energy incident at several observing stations was
measured during each of the four explosions at Operation Greenhouse
with thermopiles sensitive in the wavelength interval 0.23 to 12
microns. The outputs of the thermopiles were recorded ballistically
with recording galvanometers.

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WT 0120-32

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copy: 1 id: 148443-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 9/9/1993 type: REPORT permanent
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INUM: WT 0829
AUTH: CAMPBELL J.H.
CLSS: SRD
CORP: NAVAL RESEARCH LAB. (WASH., DC)
DATE: 6101
SUJO: 1-520-000 ; 1-420-000

DESC: Nuclear Weapon Output UV Optical Spectrum ; Experimental
SHOT: Annie; Nancy; Ruth; Dixie; Ray; Badger; Simon; Encore; Harry; Grable
REPN: WT 0829
TEMP: C0222
TITL: HIGH-DISPERSION SPECTROGRAPHIC OBSERVATIONS; OPERATION
UPSHOT-KNOTHOLE, PROJECT 18.3, PART 1 (U), 76 P., (SRD)

ABS: The general objective of Project 18.3 was to record spectrographically the ultraviolet and visible radiation from all but one (Shot 11, Climax) of the nuclear devices exploded during Upshot-Knothole. One of the specific objectives was to obtain high-dispersion spectra under a variety of space and time conditions using a two-deck, 21-foot Jarrell-Ash grating spectrograph.

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WT 0829

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 0912
ADNO: 341055
AUTH: DEMPSEY R.H. ; LARRICK R.G. ; BARAFF G.A. ; JOHNSON O.E. JR.
CLSS: U (DECLASSIFIED)
CORP: ARMY/SIGNAL ENGINEERING LABS (FORT MONMOUTH-NJ)
DATE: 5903
DESC: SURFACE OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
LOCAL FALLOUT
REPN: WT 0912
PROJ: 2.1
SHOT: BRAVO ; KOON ; UNION ; NECTAR ; ROMEO
TSHO: SURFACE ; WATER-SURFACE
SUJO: 1-710-000 ; 2-223-200
TEMP: B9463 ; 59307 ; D2495
TITL: GAMMA RADIATION EXPOSURE; OPERATION CASTLE, PROJECT 2.1, 42 P, (U)
ABS: The objective of Project 2.1 was the general documentation of the initial- and residual-gamma radiation exposures resulting from the surface detonation of megaton-yield-range thermonuclear devices in order to provide data for the determination and evaluation of the gamma-radiation hazards associated with such bursts. The following types of dosimeters were used as gamma-radiation detectors: photographic, chemical and Radiac Set AN/PDR-39. The detectors were calibrated with a 782.5-curie Co-60 source. The source was calibrated on-site using standard Victoreen r-chambers, which were calibrated at the National Bureau of Standards for use at 22 C and 76-mm pressure. Instrument shelters were installed on reef, beach, and land locations to enable differentiation between initial- and residual-gamma exposures.
ABS: Gamma-radiation exposure measurements were made at known distances from ground zero for each of the five shots in which the project

participated. The initial-gamma data has limitations; the bulk of the data was completely lost due to the destruction of most of the initial-gamma-stations. A comparison of the fragmentary initial-exposure data with scaled data shows reasonable agreement, although there is an insufficient quantity of data to analyze for effective mean free paths. For surface bursts up to 15 Mt in yield, initial-gamma radiation exposure is of little military significance to unprotected personnel or material as compared to thermal and/or blast damage. Residual-gamma radiation resulting from the fallout produced by megaton-yield-range devices was a serious military hazard in a downwind direction at a distance of 10 miles from ground zero of Shot 1.

TREE: 910

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 0913

ADNO: 338330

AUTH: BROWN P. ; CARP G.

CLSS: U (DECLASSIFIED)

CORP: ARMY/SIGNAL ENGINEERING LABS (FORT MONMOUTH-NJ)

DATE: 5902

DESC: EXPERIMENTAL THEORY

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: Nuclear Weapon Environment radiation decay gamma decay L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total

intensity L1

REPN: WT 0913

PROJ: 2.2

SHOT: BRAVO ; KOON ; UNION

TSHO: SURFACE ; WATER-SURFACE

SUJO: 1-710-000 ; 1-740-000 ; 2-223-420

TEMP: B9462 ; 59322 ; D2496

TITL: GAMMA RATE VERSUS TIME; OPERATION CASTLE, PROJECT 2.2, 32 P, (U)

ABS: The objective of Project 2.2 was to measure initial- and residual-gamma rates as a function of time at various distances from high-yield thermonuclear detonations. The measurements made are in good agreement with data from "The Nuclear Radiation Handbook," AFSWP 1100. It appears that the initial-gamma radiation is of negligible significance, because blast and thermal effects in the same distance range are so great by comparison that survival would be possible only if personnel were disposed inside blast- and thermal-proof bunkers.

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INUM: WT 0934
AUTH: SCOVILLE H.
CLSS: SRD
CORP: OFFICE OF THE DEPUTY CHIEF OF STAFF (ALBUQUERQUE-NM)
DATE: 5901
DESC: nuclear test detection methods hardware L5
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L5
DESC: Nuclear Weapon Effects on plants blast shock blowdown L5
DESC: Environmental Conditions at Nuclear Weapon Test Site L9 P17
DESC: Nuclear Weapon Effects flight systems airplanes L5
DESC: Environmental Conditions at Nuclear Weapon Test Site ionospheric
conditions at time of test L9 P20
DESC: Nuclear Weapon Environment Airblast L5
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
DESC: Nuclear Weapon Environment Fallout Radioproperties L5
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L5
DESC: Nuclear Weapon Environment Water Shock pressure impulse particle
motion L5
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L5
DESC: Nuclear Weapon Effects structures aboveground buildings L5
DESC: Nuclear Weapon Environment Airblast effects of atmospheric
inhomogeneities L5
REPN: WT 0934
PROJ: 1 ; 2 ; 3 ; 4 ; 6 ; 7 ; 9
SHOT: BRAVO ; ROMEO ; KOON ; UNION ; YANKEE ; NECTAR
TSHO: SURFACE ; WATER SURFACE
SUJO: 1-140-000 ; 1-740-000 ; 2-223-000 ; 2-225-100 ; 2-610-000 ;
2-613-300 ; 2-633-000 ; 3-111-000 ; 3-161-000 ; 3-251-000 ;
3-312-000 ; 3-331-000 ; 4-840-000 ; 4-845-000 ; 4-910-000
TEMP: B9448 ; B1843 ; 39307
TITL: SUMMARY REPORT OF THE COMMANDER, TASK UNIT 13, MILITARY EFFECTS,
PROGRAMS 1-9; OPERATION CASTLE (U), 118 P (SRD)
ABS: This report is the final summary of the military-effect test program
conducted during Operation Castle at the Enewetok, then called the
"Pacific" Proving Ground in the spring of 1954. Although a few
military-effect project reports were not yet published when this
summary was written, all had been submitted in draft form and were
available for reference in preparing this summary report. Report is
organized to present 1) a general summary of the background of
military-effect participation on Castle in the first chapter, 2) a
general discussion of the findings of each test program in
subsequent chapters, and 3) a brief abstract of each project and
bibliographical information on each project report in the Appendix.

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INUM: WT 0935
ADNO: 338336L
AUTH: FOLSOM T.R. ; WERNER L.B.
CLSS: SRD
CORP: SCRIPPS INSTITUTION OF OCEANOGRAPHY (LA JOLLA-CA) ;
NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 5904
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: UNDERWATER OBSERVATION SURFACE OBSERVATION LOCAL FALLOUT ;
EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment fallout arrival time L1 P62
REPN: WT 0935
PROJ: 2.7
SHOT: YANKEE ; NECTAR
TSHO: WATER-SURFACE
SUJO: 2-223-200 ; 2-223-300 ; 2-225-100 ; 2-225-300 ; 4-821-000
TEMP: B9442 ; 59320
TITL: DISTRIBUTION OF RADIOACTIVE FALLOUT BY SURVEY AND ANALYSIS OF SEA
WATER; OPERATION CASTLE, PROJECT 2.7, 92 P, (SRD)
ABS: Oceanographic-survey and water-sampling techniques were employed to
evaluate the amount and distribution of the fallout received over
extended areas adjacent to nuclear detonations of high yields. The
project was established as a result of the fallout phenomena
observed following Shot 1. The operational and technical details had
to be hastily contrived so that they could be put into effect within
the latter phase of Operation Castle. This is a record of
experimental data required following Shot 5 and Shot 6 of Operation
Castle together with a careful re-evaluation of its significance.

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INUM: WT 1014
ADNO: 445669
AUTH: ISAACS J.D.
CLSS: U
CORP: SCRIPPS INSTITUTE OF OCEANOGRAPHY (LA JOLLA-CA)
DATE: 6203
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: EXPERIMENTAL
REPN: WT 1014
SHOT: WIGWAM
TSHO: UW
SUJO: 2-223-420 ; 2-225-100
TITL: MECHANISM AND EXTENT OF THE EARLY DISPERSION OF RADIOACTIVE PRODUCTS
IN WATER; OPERATION WIGWAM, PROJECT 2.6-1 (U), 56 P (U)

ABS: The early distribution of radioactivity in the sea following Shot Wigwam, 14 May 1955, was complex. During the early survey, which extended from 14 to 24 May, the radioactive water masses were surveyed continuously. The surface radioactivity was surveyed three times, and three other water masses extending from the thermocline to 300 meters in depth were also surveyed. The total activity found, referred to 120 hours after detonation, was 8.5×10 to the 7th power curies. This result is extremely close to the prediction of the "concept" of 8.41×10 to the 7th power curies at H+120 hours. The closeness of the results is meaningless because of the many uncertainties involved in the measurements. Thirty-two percent of the activity was found in the surface layers, and 68 percent was found at a depth of 200 to 300 meters.

ABS: The deep activity was found to be complexly distributed in laminae of activity that moved more or less independently on the surface and other waters. It appears that the mechanism that gave rise to this distribution was an emergence of a deep column of water at early times following the detonation and a subsequent mixing of these deeper waters with the surface layers and their sinking to an intermediate depth as a result of instability. Heat of the detonation apparently had no eventual effect upon the distribution of radioactivity other than the creation of the initial gas globe. It appears that the upwelling of this column of deep water was the result of the persistence and migration of the gas globe. The emergence of the column gave rise to an east-west moving mass of water on the surface, perhaps due to the earth's rotation.

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INUM: WT 1115
ADNO: 340142L
AUTH: GRAHAM J.B. ; LARRICK R.J. ; JOHNSON O.E. ; HURLEY T.J.
CLSS: SRD 1
CORP: ARMY/ELECTRONICS LABORATORIES (FT MONMOUTH-NJ)
DATE: 5910
DESC: test instruments nuclear radiation gamma L5
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L1
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L9
POST ONLY P 41
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1 DEV-29 DEV-30 DEV-47 DEV-46 CLOSE INOBSERVATION
INTERMEDIATE RANGE OBSERVATION
REPN: WT 1115
PROJ: 2.1
SHOT: WASP ; MOTH ; TESLA ; TURK ; HORNET ; BEE ; APPLE-1 ; WASP PRIME ;
HA ; POST ; MET ; APPLE-2 ; ZUCCHINI ; ESS
TSHO: LOW-ALT ; UNDERGROUND-VENTED
SUJO: 1-710-000 ; 1-730-000 ; 4-341-000 ; 4-820-400
TEMP: C0082 ; 23495 ; 59483 (DTIC)
TITL: GAMMA EXPOSURE VERSUS DISTANCE; OPERATION TEAPOT, PROJECT 2.1 (U),
46 P (SRD)
TREE: 910

ABS: The objectives of Project 2.1 were to measure the initial gamma exposure as a function of distance from various Operation Teapot detonations and to compare these measurements with predicted exposures from various standard weapons detonated under similar circumstances. Primary emphasis was placed on measurements made for a device detonated at 36,620 feet MSL (Shot 10) and for an identical device detonated at 4,995 feet MSL (Shot 9). In addition, measurements were made for designated prototype weapons of essentially new design. Measurements were also made in support of other projects. Most Operation Teapot shot devices produced a high-neutron flux and a nonstandard gamma output; consequently, there is little physical basis to expect the gamma exposures from these devices to scale.

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WT 1115

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1118
ADNO: 341058L
AUTH: GRAHAM J.B. ; CARP G. ; MARKOW B. ; RAST R.
CLSS: CRD
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB (FT MONMOUTH, NJ)
DATE: 5910
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
NEUTRON INDUCED
DESC: Nuclear Weapon Environment fallout arrival time L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: test instruments nuclear radiation gamma L5
DESC: Soil Rock Properties Equation of State Conductivity L9 ISOTOPIC
CONCENTRATIONS OF NTS SOIL P 46
REPN: WT 1118
PROJ: 2.4
SHOT: ESS ; WASP ; WASP PRIME ; MOTH ; TESLA

TSHO: UG-VENTED ; LOW-ALT
SUJO: 2-223-200 ; 2-223-420 ; 2-225-300 ; 4-341-000 ; 4-821-000 ;
6-300-000
TEMP: C0084 ; 59507
TITL: GAMMA DOSE RATE VERSUS TIME AND DISTANCE; OPERATION TEAPOT, PROJECT
2.4 (U), 56 P (CRD)
TREE: 910

ABS: Project 2.4 objectives were: 1) to measure the gamma intensity
versus time of an underground nuclear detonation at several
distances from ground zero; and 2) to measure the neutron-induced
gamma activity versus time in the vicinity of ground zero of air
bursts and to determine the decay rate of this activity. The project
participated in five shots.

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1146
ADNO: 339905L
AUTH: HILLENDahl R.W. ; LAUGHRIDGE F.I.
CLSS: U (DECLASSIFIED)
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO-CA)
DATE: 5907
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: CLOSE IN OBSERVATION INTERMEDIATE RANGE OBSERVATION SURFACE
OBSERVATION ; EXPERIMENTAL
DESC: thermal protection L1 SMOKE
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1
REPN: WT 1146
PROJ: 8.4B
SHOT: WASP ; MOTH ; TESLA ; HORNET ; BEE ; WASP PRIME ; HA ; ZUCCHINI
TSHO: LOW-ALT
SUJO: 1-210-000 ; 1-240-000 ; 1-410-000 ; 1-420-000 ; 2-110-000 ;
2-150-000 ; 4-820-700 ; 9-870-000
TEMP: C0101 ; B1832 ; D2456
TITL: BASIC THERMAL-RADIATION MEASUREMENTS; OPERATION TEAPOT, PROJECT 8.4b
(U), 96 P, (U)

ABS: The objective of Project 8.4b was to determine the physical
characteristics of the thermal radiation from nuclear devices
detonated during Operation Teapot at ranges where the thermal
radiation causes damage to military targets. More specifically, the

objectives were to: 1) accumulate basic thermal data, such as total thermal energy, broadband spectral distribution of the thermal energy, and the thermal irradiance, for weapon sizes for which these data were not available; 2) check the existing thermal scaling laws and to modify and extend them to include a wider range of weapon sizes; 3) attempt thermal measurements, at extremely close ranges and high energies where there were no experimental data available;

ABS: 4) determine the relative differences in thermal energy received from tower and air bursts and to compute the thermal yields for both cases; 5) see if a correlation exists between weapon characteristics and the characteristics of the thermal radiations; 6) determine the effects of burst altitude upon the pulse shape and other characteristics of the thermal radiations; 7) assist the Army Chemical Corps in the evaluation of the effectiveness of an oil-fog smoke screen as an attenuator of thermal radiations; 8) attempt a determination of thermal input to various material plots placed at close ranges and the correlation of the data with air temperature, sound velocity, gas sampling, and photographic measurements; 9) obtain additional data relative to the atmospheric attenuation of thermal radiations;

ABS: 10) determine the effective color temperature of the fireball as viewed from close range; 11) determine the apparent geometry and size of the fireball at times of significant thermal emission; 12) determine the minimum power temperature of the fireball as a function time; and 13) test new thermal instrumentation designed to measure in energy ranges higher and lower than those measured in previous operations.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1177

ADNO: 611256

AUTH: LINDBERG R.G. ; ROMNEY E.M. ; OLAFSON J.H. ; LARSON K.H.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CALIFORNIA)

DATE: 5901

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout Deposition

DESC: Nuclear Weapon Environment Fallout Radioproperties

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic

DESC: Nuclear Weapon Phenomenology cloud Motion

DESC: Nuclear Weapon Environment Fallout Particles

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

DESC: Nuclear Weapon Effects ecological

REPN: WT 1177

SHOT: TURK ; BEE ; ESS ; APPLE-1 ; APPLE-2 ; MET ; POST

TSHO: LOW-ALT
SUJO: 2-222-000 ; 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-312-200 ;
3-332-200 ; 3-341-000 ; 4-821-000
TITL: FACTORS INFLUENCING THE BIOLOGICAL FATE AND PERSISTENCE OF
RADIOACTIVE FALLOUT; OPERATION TEAPOT, PROJECT 37.1 (U), 78 P (U)

ABS: The purpose of this investigation was to study the factors influencing the biological fate and persistence of radioactive fallout materials in areas adjacent to the Nevada Test Site. Data have been obtained pertaining to the following phenomena: 1) The biological accumulation of radioactive materials derived from nuclear detonations as functions of distance of the sampling station from Ground Zero (GZ), radioactive particle-size distribution, and fractionation of fallout material as it may vary with distance from GZ. These data included determinations of total uptake of fission products in animals, sites of retention, rates of clearance, and isotopic identification of some contaminants.

ABS: 2) The persistence of radioactive fallout material on plants and in animals living in contaminated environments. 3) The availability of fallout materials to plants under various conditions of contamination. These studies included cropping of contaminated soils, foliar retention, and uptake of radioactive materials from soils treated with organic matter exposed to fallout materials. 4) Evaluation of inhalation as a significant phenomenon in the uptake of radioactive fallout in actual fallout areas. 5) The percentage distribution of the total-body burden of certain fission products in the tissues of animals exposed to fallout at various distances of GZ.

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INUM: WT 1194
ADNO: 611160
AUTH: Randall P.A.
CLSS: U
CORP: Office of Civil and Defense Mobilization (Wash., DC) ; Federal
Housing Administration (Wash., DC) ; House and Home Finance Agency
(Wash., DC)
DATE: 6103
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground buildings
DESC: Nuclear Test Simulation Field Programs experiment design surface
vehicles structures)
REPN: WT 1194
SHOT: APPLE-2
TSHO: LOW-ALT
SUJO: 3-251-000 ; 4-829-200
TITL: Damage to Conventional and Special Types of Residences Exposed to
Nuclear Effects; Operation Teapot, Project 31.1 (U), 83 P (U)

ABS: On May 5, 1955, at the Nevada Test Site of the Atomic Energy Commission, 10 residential structures were exposed to the explosion of a nuclear device (Apple II) of approximately 30-kt yield, detonated atop a 500-ft tower, to test their behavior and resistance to nuclear weapons effects and to obtain data that will contribute to the development of improved protective designs. From a determination of the behavior of these structures under blast, thermal and nuclear radiation effects, it should be possible to determine the best steps to be taken for the protection of families living in such structures and to obtain necessary additional data on the strengths of the structures as a whole and possible weaknesses in component parts.

ABS: Project 31.1 was concerned primarily with blast and radiation effects on residential structures, and precautions were taken to avoid ignition of the structures by the thermal energy of the explosion. Data obtained are expected to be useful also in the development of methods for strengthening the structures within limits of practical economy, and in providing information on the possible use of the structures for housing without major repairs following a nuclear event.

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WT 1194

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INUM: WT 1225

ADNO: 460282

AUTH: Mather R.L. ; Johnson R.F. ; Tomnovec F.M. ; Cook C.S.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO-CA)

DATE: 5910

DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma

REPN: WT 1225

SHOT: ESS

TSHO: SURFACE

SUJO: 2-223-200 ; 4-341-000 ; 4-821-000

TITL: Gamma Radiation Field Above Fallout Contaminated Ground; Operation
Teapot, Project 2.3b (U), 96 P (U)

ABS: One of the objectives of Project 2.3 was to find the relationship between fallout gamma-radiation-source spectra (which can be measured in the laboratory) and the physical characteristics of the radiation field existing over a uniformly contaminated area. This objective was met by measuring the energy and direction distribution of gamma photons 3-1/2-ft above a fallout-contaminated area nine days after the burst of a fission device using a mobile-scintillation spectrometer. The complete interpretation of

these measurements yielded the necessary relationships. It was concluded that the direct, unscattered radiation field, which contributes about 80 percent of the roentgen effectiveness, could be computed from the source strength and spectrum on the basis of simple theory requiring knowledge only of the thickness of overlying inert material.

ABS: Further experiments are needed to establish the character of this overlying material and the variation of its thickness with time and other parameters. Further experiments are needed to establish the magnitude and causes of variations in the fallout source strength and spectrum. The conclusion was reached that the scattered radiation field was of the sort to be expected. Computations of this field are difficult, but definitive comparisons with the experimental results must await them.

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INUM: WT 1229

ADNO: A995010

AUTH: Plum W.B. ; Jenkins R.J. ; Hopton R.L.

CLSS: U

CORP: Naval Radiological Defense Lab (San Francisco, CA)

DATE: 5902

REPN: WT 1229

TITL: Irradiance Measurements with Time Resolution; Operation Teapot, Project 8.4f (Supplement to WT 1150) (U), 15 P., (U)

ABS: Data for several shots during Operation Teapot suggest that there is some deviation from the relationship $W(kt)=1.37 \times 10$ to the 5th, t_2 min, where t min is the time in seconds to the minimum in the irradiance-time curve, for devices with yields of less than 10 kt. This deviation is apparently due to variations in the mass-yield ratio for these comparatively small devices and was as much as 25 percent for a 2-kt device. The total thermal energy radiated prior to the minimum is less than 1 percent of the total thermal energy radiated for all shots reported. The data were obtained with a bolometer chopper system with a time constant of 50 msec.

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INUM: WT 1311

ADNO: 339465L

AUTH: Brown P. ; Carp G. ; Markow B. ; Marmioli R.

CLSS: SFRD
CORP: Army Signal Research and Development Lab (Ft. Monmouth-NJ)
DATE: 6001
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1, 174 L1, 22253 L1, 222342 L1
DESC: INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL
REPN: WT 1311
PROJ: 2.2
SHOT: FLATHEAD ; NAVAJO ; ZUNI ; TEWA
TSHO: SURFACE ; WATER-SURFACE
SUJO: 1-710-000
TEMP: 45605 ; B9429
TITL: Gamma Exposure Rate Versus Time; Operation Redwing, Project 2.2 (U),
53 P (SRD)

ABS: The primary objectives of Project 2.2 were: 1) to measure the
initial-gamma-exposure rate as a function of time from the
detonation of high-yield-thermonuclear devices; and 2) to measure
the residual-gamma-exposure rate as a function of time at land
fallout stations. Secondary objectives were: 1) to measure residual
radiation at early times on the crater lip of a high-yield,
land-surface shot; and 2) to field test a prototype
thermal-radiation detector to be used in a
radiological-defense-warning system.

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WT 1311

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1314
ADNO: 339959L
AUTH: Cowan M. Jr.
CLSS: SFRD
CORP: Sandia Corp (Albuquerque-NM)
DATE: 5912
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 YUMA P 19
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: WT 1314
PROJ: 2.52
SHOT: CHEROKEE ; YUMA
TSHO: LOW-ALT
SUJO: 1-110-000 ; 2-223-200 ; 4-821-000
TEMP: B9426 ; 59513
TITL: Neutron-Induced Soil Radioactivity; Operation Redwing, Project 2.52
(U), 27 P,(SRD)

ABS: This experiment was designed to provide data to aid the formulation

of a method for predicting the gamma-radiation field caused by air bursts. Specific objectives were to measure the induced activity from a large-yield, thermonuclear air burst and to exploit the opportunity offered for an investigation of activity induced in some soil other than the soil of the Nevada Test Site. When a bomb-drop error prevented any data being obtained on Shot Cherokee, an additional experiment was set up on Shot Yuma to obtain some data applicable to the second specific objective.

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WT 1314

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1315

ADNO: 339947L

AUTH: Soule R.R. ; Shirasawa T.H.

CLSS: SRD

CORP: Naval Radiological Defense Lab (San Francisco-CA)

DATE: 6004

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: EXPERIMENTAL

REPN: WT 1315

SHOT: TEWA ; NAVAJO ; ZUNI ; CHEROKEE

TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE

SUJO: 2-223-100 ; 2-223-200 ; 2-225-100

TEMP: B9425 ; 45647

TITL: Rocket Determination of Activity Distribution Within the Stabilized Cloud; Operation Redwing, Project 2.61 (U), 52 P (SRD)

ABS: The specific objectives of Project 2.61 were to: 1) proof test a system using rocket-borne detection units with telemetering transmitters to explore the spatial distribution of radioactivity in the stem and cloud resulting from a nuclear detonation; 2) measure gamma intensities along several continuous known trajectories passing through the stem and cloud at 7 and 15 minutes after detonation; and 3) estimate the extent to which the rocket became contaminated as it passed through the stem or cloud.

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INUM: WT 1316

ADNO: 338867L

AUTH: Jennings F.D. ; Schwartzlose R.A. ; Huffer R.P. ; Martin D. ; Isaacs

J.D.

CLSS: SRD
CORP: Scripps Institute of Oceanography (La Jolla-CA)
DATE: 6102
DESC: test instruments nuclear radiation gamma L5
DESC: Nuclear Weapon Environment fallout arrival time L1
DESC: Dynamic Oceanography L5
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: UNDERWATER OBSERVATION INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL
TABULAR
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Environmental Conditions at Nuclear Weapon Test Site underwater
conditions bottom measurements L1
REPN: WT 1316
PROJ: 2.62A
SHOT: CHEROKEE ; FLATHEAD ; NAVAJO ; TEWA ; ZUNI
TSHO: WATER-SURFACE ; LOW-ALT ; SURFACE
SUJO: 2-223-200 ; 2-225-100 ; 2-225-200 ; 2-225-300 ; 3-312-000 ;
4-341-000 ; 4-821-000 ; 4-844-000 ; 7-100-000
TEMP: B9424 ; 59482
TITL: Fallout Studies by Oceanographic Methods; Operation Redwing, Project
2.62a (U), 158 P, (SRD)

ABS: The objectives of this project were to: 1) understand the oceanography of the fallout area, so as to allow better analysis of the fallout area; 2) determine by oceanographic methods the intensity and extent of fallout and convert this to land-equivalent values; 3) study the circulation water within Bikini Lagoon and predict the movement of the radioactive material suspended in the lagoon; 4) install and maintain anchored instrument stations in deep ocean water; and 5) perform radiochemical analyses on as wide a scope as possible with equipment on hand. In achieving these objectives, it was hoped that enough information concerning the study and measurement of fallout at sea would be gained to permit a reduction in the number and types of measurements required to describe the fallout phenomena under various conditions of detonation.

ABS: It was also anticipated that the early determination of the initial fallout distribution would be valuable to other agencies making long-range studies of the radioactive water mass.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1317
ADNO: 341068

AUTH: Triffet T. ; LaRiviere P.D.
CLSS: SRD
CORP: Naval Radiological Defense Lab (San Francisco-CA)
DATE: 6103
REPN: WT 1317
TEMP: B9423 ; 59388
TITL: Characterization of Fallout; Operation Redwing, Project 2.63 (U) 310
P, (SRD)

ABS: The general objective was to collect and correlate the data needed to characterize the fallout, interpret the observed surface-radiation contours, and check the models used to make predictions, for Shots Cherokee, Zuni, Flathead, Navajo, and Tewa during Operation Redwing. The specific objectives of the project were: 1) to determine the time of arrival, rate of arrival, and cessation of fallout, as well as the variation in particle-size distribution and gamma-radiation field intensity with time, at several points close to and distant from ground zero; 2) to collect undisturbed samples of fallout from appropriate land- and water-surface detonations for the purpose of describing certain physical properties of the particles and droplets, including their shape, size, density and associated radioactivity;

ABS: measuring the activity and mass deposited per unit area; establishing the chemical and radiochemical composition of the fallout material; and determining the sizes of particles and droplets arriving at given times at several important points in the fallout area; 3) to make early-time studies of selected particles and samples in order to establish their radioactive-decay rates and gamma-energy spectra; 4) to measure the rate of penetration of activity in the ocean during fallout, the variation of activity with depth during and after fallout, and the variation of the gamma-radiation field with time a short distance above the water surface; and 5) to obtain supplementary radiation-contour data at short and intermediate distances from ground zero by total-fallout collections and time-of-arrival measurements.

ABS: It was not an objective of the project to obtain data sufficient for the determination of complete fallout contours. Instead, emphasis was placed on 1) complete and controlled documentation of the fallout event at certain key points throughout the pattern, also intended to serve as correlation points with the surveys of other projects, 2) precise measurements of time-dependent phenomena, which could be utilized to establish which the conflicting assumptions of various fallout prediction theories were correct; 3) analysis of the fallout material for the primary purpose of obtaining a better understanding of the contaminant produced by water-surface detonations; and 4) gross documentation of the fallout at a large number of points in and near the lagoon.

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INUM: WT 1318
ADNO: 361829
AUTH: Graveson R.T. ; Cassidy M.E. ; Levine H.D.
CLSS: SRD
CORP: Atomic Energy Commission (New York, NY)
DATE: 6012
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: Radiation Transport gamma L9 TEAPOT WIGWAM P.67
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
LOCAL FALLOUT
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout beta intensities L1 LOCAL FALLOUT
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
LOCAL FALLOUT
REPN: WT 1318
PROJ: 2.64
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; NAVAJO ; MOHAWK ; TEWA ; TEAPOT
(SERIES) ; WIGWAM
TSHO: LOW-ALT ; WATER SURFACE ; SURFACE
SUJO: 2-223-200 ; 2-223-300 ; 2-225-100 ; 4-821-000 ; 9-620-000
TEMP: B9422 ; B8009 (DTIC)
TITL: Operation Redwing, Project 2.64; Fallout Location and Delineation by
Aerial Surveys (U), 75 P., (SRD)
ABS: The objectives were to: 1) survey the gamma radiation from
fallout-contaminated ocean areas by means of aerial detectors, and
2) from the aerial detectors make air-absorption measurements so
that the data might be related to the dose rates at 3 feet above the
sea.

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INUM: WT 1319
ADNO: 340136L
AUTH: Morgenthau M. ; Shaw H.E. ; Tompkins R.C. ; Krey P.W
CLSS: SRD
CORP: Army/Chemical Warfare Labs. (MD)
DATE: 6002
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility L1
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
DESC: test instruments nuclear radiation gamma L5
DESC: test instruments nuclear radiation fallout debris sampling
collectors L5
DESC: Nuclear Weapon Phenomenology base surge L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5

DESC: Nuclear Weapon Environment fallout accumulation rate L1 INTERMEDIATE
RANGE OBSERVATION
DESC: Nuclear Weapon Environment Fallout Particles physical
characteristics L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: LOCAL FALLOUT ; EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Environment fallout arrival time L1
REPN: WT 1319
PROJ: 2.65
SHOT: CHEROKEE ; ZUNI ; TEWA ; NAVAJO ; FLATHEAD ; LACROSSE ; MOHAWK
TSHO: LOW-ALT ; SURFACE ; WATER SURFACE
SUJO: 2-222-100 ; 2-222-200 ; 2-222-300 ; 2-223-000 ; 2-224-120 ;
2-225-100 ; 2-225-300 ; 2-225-400 ; 4-341-000 ; 4-345-000 ;
4-821-000
TEMP: B9421 ; 59512 (DTIC)
TITL: Operation Redwing, Project 2.65; Land Fallout Studies (U), 162 P.,
(SRD)
ABS: The objectives of Project 2.65 were to obtain samples and perform
radiophysical and radiochemical measurements on the samples, prepare
dose-rate contours in the immediate area of the atoll, and evaluate
the role of base surge in the transport of radioactive material.

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INUM: WT 1320
ADNO: 338625
AUTH: Pinson E.A. ; Kaericher K.C. ; Banks J.E. ; Hord J.
CLSS: SRD
CORP: Air Force Special Weapons Center (Kirtland AFB, NM)
DATE: 6002
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Effects flight systems airplanes
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: Nuclear Weapon Phenomenology cloud shape size
REPN: WT 1320
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; APACHE ; NAVAJO
TSHO: WATER-SURFACE ; LOW-ALT
SUJO: 2-223-200 ; 2-223-420 ; 2-224-140 ; 3-111-000 ; 3-312-200 ;
3-312-220 ; 4-341-000 ; 4-821-000
TEMP: B9420 ; B7514-I ; 57714
TITL: Operation Redwing; Project 2.66a; Early Cloud Penetrations (U), 56

P., (SRD)

ABS: Twenty-seven penetrations of six radiation clouds from multimegaton-range detonations were made at times ranging from 20 to 78 minutes after detonation and at altitudes ranging from 20,000 to 50,000 feet. Sixteen of these penetrations were earlier than 45 minutes and seven were earlier than 30 minutes.

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INUM: WT 1321

ADNO: 357967L

AUTH: Rinnert H.R.

CLASS: U (DECLASSED)

CORP: Naval Radiological Defense Lab (San Francisco, CA)

DATE: 5907

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: Cross Sections gamma

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external

DESC: test instruments nuclear radiation gamma

DESC: YAG-39 SHIP YAG-40 SHIP ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: WT 1321

SHOT: ZUNI ; NAVAJO ; TEWA ; FLATHEAD

TSHO: WATER-SURFACE ; SURFACE

SUJO: 2-223-200 ; 3-312-210 ; 4-341-000 ; 4-821-000 ; 9-830-000

TEMP: 49147 ; D2384

TITL: Operation Redwing, Project 2.71; Ship-Shielding Studies (U), 90 P., (U)

ABS: The principal objectives of this project were to determine, for the types of nuclear detonations encountered during Operation Redwing, 1) the relative gamma radiation fields resulting from radioactive contaminants on a ship's weather surfaces, in the surrounding air envelope, and in the surrounding water envelope as a function of time, and 2) characteristics of the interaction of gamma radiation with steel as a function of thickness and time after detonation. It was concluded and recommended that all calculations of radiation attenuation afforded by ships structures should include consideration of: 1) the changing relationships among the significant contributions of the several radiation sources, and 2) the significant variation of the gamma radiation absorption and scattering characteristics of steel with respect to shot type and time after detonation.

ABS: These variables should be investigated for as many shot conditions as may be practicable, especially for underwater detonations where significantly different results may be expected in the relationships among radiation sources.

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INUM: WT 1322

ABS: Various test surfaces and specimens were exposed on YAG-39 and YAG-40 to fallout. Contaminability-decontaminability (C-D) studies were conducted when the ships returned to Eniwetok lagoon. Radiological warfare may require new standards of cleanliness for naval ships. Wood decking should be maintained as smooth as possible with no raw wood exposed. All payed joints should be free of fissures and pockets. Nothing, including wire ropes, manila lines, and firehoses not required during attack, should be stored on the main deck. After contamination, any materials that cannot be destroyed should be stored uncoiled to minimize the radiation field, or stored in a unfrequented location.

ADNO: 362109

AUTH: Heiskell R.H.

CLSS: U (DECLASSED)

CORP: Naval Radiological Defense Lab. (San Francisco-CA)

DATE: 5901

REPN: WT 1322

TEMP: 59375 ; D2383

TITL: Operation Redwing, Project 2.8; Shipboard
Radiological-Countermeasure Methods (U), 86 P., (U)

TNFF: 6290 ; 6220

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WT 1322

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INUM: WT 1323

ADNO: 357962L

AUTH: Vine F.S. ; Owen W.L.

CLSS: U (DECLASSED)

CORP: Navy Bureau of Ships (Wash., DC) ; Naval Radiological Defense Lab.
(San Francisco-CA)

DATE: 5903

REPN: WT 1323

TEMP: 59382 ; D2423

TITL: Operation Redwing, Project 2.9; Standard Recovery Procedure for
Tactical Decontamination of Ships (U), 46 P., (U)

ABS: The objectives of this project were 1) to proof test a proposed
standard recovery procedure for the tactical decontamination of Navy

ships and 2) to perform, as required, an operational decontamination of each of three test ships to enable them to make their next scheduled participation.

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INUM: WT 1324

ABS: This project was conducted to verify the effectiveness of a washdown system as a radiological countermeasure for ships. The evaluations were made possible by the requirement for washdown-equipped ships to be stationed within the region of tactically significant fallout in order to support several projects in the fallout characterization program of operation Redwing. Washdown effectiveness was measured by a comparison of gamma-radiation field measurements taken in the unwashed control area forward and the washed after portion of each ship. The test ships participated in five shots and at least one of them was sufficiently contaminated in four of these to make washdown evaluation feasible.

ADNO: 357963L

AUTH: Armstrong W.J. ; Bigger M.M. ; Curtis H.B.

CLASS: U (DECLASSIFIED)

CORP: Naval Radiological Defense Lab. (San Francisco-CA) ; Naval Bureau of Ships (Wash., DC)

DATE: 5902

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5

DESC: Nuclear Weapon Environment fallout arrival time L5

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects ship systems surface ships L1 FALLOUT REMOVAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L5

REPN: WT 1324

PROJ: 2.10

SHOT: NAVAJO ; FLATHEAD ; TEWA ; ZUNI

TSHO: SURFACE ; WATER SURFACE

SUJO: 2-223-200 ; 2-225-300 ; 3-122-000 ; 3-312-200

TEMP: 59311 ; D2422

TITL: Operation Redwing, Project 2.10; Verification of Shipboard Washdown Countermeasure (U), 56 P., (U)

TNFF: 6290

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WT 1324

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1328

ADNO: 340140L
AUTH: Williams F.L.
CLSS: SFRD
CORP: Air Force Air Development Center (Wright-Patterson AFB, OH) ; Boeing Aircraft Co.
DATE: 5910
DESC: Nuclear weapon test yield
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects flight systems airplanes
DESC: Nuclear Test Simulation Field Programs experiment design aerospace systems
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
REPN: WT 1328
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON
TSHO: WATER-SURFACE ; LOW-ALT ; SURFACE
SUJO: 2-611-000 ; 3-111-000 ; 3-312-100 ; 4-829-100 ; 4-835-000 ; 4-841-000
TEMP: B9412 ; 59127 (DTIC)
TITL: Operation Redwing, Project 5.2; In-Flight Participation of a B-52 (U), 71 P., (SFRD)
ABS: The primary objective of this project was to obtain measured-energy input and aircraft-response data on an instrumented B-52 aircraft when subjected to the thermal, blast, and gust effects of a nuclear explosion.

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INUM: WT 1333
ADNO: 361768L
AUTH: Dresser R.L. ; Gauvin H.P. ; Wares G.W. ; Walker R.G. ; Ellis R.E. ; Doherty C.A. ; Kofsky I.L. ; Johnson J.C.
CLSS: SFRD
CORP: Air Force Cambridge Research Labs. (Cambridge, MA) ; Technical Operations, Inc. (Burlington, MA)
DATE: 6109
DESC: Nuclear Weapon Environment Infrared Output source strength total intensity
DESC: Nuclear Weapon Environment Thermal Output angular distribution
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
DESC: Nuclear Weapon Environment Visible Output source strength total intensity
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature Density Particle Velocities
DESC: Nuclear Weapon Environment Visible Output energy spectrum

DESC: Nuclear Weapon Environment Visible Output rate
DESC: Nuclear Weapon Phenomenology Fireball Chemistry
DESC: Nuclear Weapon Effects meteorological Wilson Cloud
DESC: Nuclear Weapon Effects Light scattering optical interference from
dust
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR
DESC: Nuclear Weapon Environment Thermal Output rate
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: Nuclear Weapon Environment Visible Output angular distribution
DESC: Nuclear Weapon Phenomenology plumes spray domes
REPN: WT 1333
SHOT: ERIE ; LACROSSE ; HURON ; MOHAWK ; FLATHEAD ; DAKOTA ; APACHE ; ZUNI
; TEWA ; NAVAJO ; CHEROKEE
TSHO: SURFACE ; LOW-ALT
SUJO: 1-210-000 ; 1-230-000 ; 1-240-000 ; 1-310-000 ; 1-410-000 ;
1-420-000 ; 1-430-000 ; 1-440-000 ; 2-110-000 ; 2-130-000 ;
2-160-000 ; 2-224-130 ; 2-226-000 ; 2-720-000 ; 4-820-600 ;
5-200-000
TEMP: B9240 ; B1828 ; A9961
TITL: Operation Redwing, Project 5.7; Thermal Flux and Albedo Measurements
from Aircraft (U), 305 P., (SFRD)
ABS: The primary objective was to obtain and evaluate experimental data
on the basic thermal phenomena associated with the nuclear and
thermonuclear explosions detonated between 5 May and 22 July 1956 at
the Pacific Proving Grounds. This data was to be obtained from
airborne instrumentation.

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INUM: WT 1338
ADNO: 338041L
AUTH: Plum W.B. ; Hillendahl R.W. ; Laughridge F.I. ; Nichols J.R.
CLSS: SRD
CORP: Naval Radiological Defense Lab. (San Francisco-CA)
DATE: 5905
DESC: Nuclear Test Simulation Field Programs experiment design photography
L9 P 18
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5
DESC: INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Visible Output rate L1
REPN: WT 1338
SHOT: LACROSSE ; CHEROKEE ; ZUNI
TSHO: LOW-ALT ; SURFACE
SUJO: 1-210-000 ; 1-240-000 ; 1-410-000 ; 1-440-000 ; 2-110-000 ;
4-820-700 ; 4-826-000
TEMP: B9244 ; B1826

TITL: Operation Redwing, Project 8.1a; Basic Thermal Radiation
Measurements from Ground Stations (U), 82 P, (SRD)

ABS: The objectives of this project were to determine the characteristics of the thermal radiation emitted by three of the nuclear devices detonated at the Enewetok Proving Ground during Operation Redwing. More specifically, the objectives were to: 1) accumulate basic thermal data for device yields and burst conditions for which these data were not previously available; 2) extend the existing thermal scaling laws to include a wider range of yields; 3) obtain atmospheric attenuation data applicable to nuclear-weapon situations; and 4) determine the thermal energy input to the material samples exposed by Project 8.2, experimental instruments exposed by Project 8.3, aircraft panels exposed by Project 8.4 and the animals exposed by Project 4.1.

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INUM: WT 1339
ADNO: 465331
AUTH: Fons W.L. ; Butler C.P. ; Bruce H.D.
CLSS: U
CORP: US Forest Service (Wash., DC)
DATE: 5903
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity

DESC: Nuclear Weapon Effects materials wood paper cellulose films

REPN: WT 1339

SHOT: CHEROKEE

TSHO: LOW-ALT

SUJO: 1-210-000 ; 3-246-000

TITL: Operation Redwing, Project 8.2; Thermal Effects on Cellulosic
Materials (U), 32 P (U)

ABS: The project's primary objectives were the determination of: 1) the minimum thermal-ignition energies for the fine kindling fuels as a check on laboratory data obtained by the US Forest Service and the US Naval Radiological Defense Lab and 2) the depth of char in wood as a check on equations developed from laboratory data obtained by NRDL with a carbon arc.

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INUM: WT 1340
ADNO: 357964L
AUTH: Mahoney J.J. ; Keough D.D. ; Goodwin L.K. ; Moles D.W. ; Thomas W.B.
CLSS: U (DECLASSD)
CORP: Army Chemical Center (Edgewood-MD)
DATE: 5903
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: test instruments thermal temperature
DESC: EXPERIMENTAL
REPN: WT 1340
SHOT: CHEROKEE
TSHO: LOW-ALT
SUJO: 1-210-000 ; 4-384-000
TEMP: B9248 ; 49106 ; D2432
TITL: Operation Redwing, Project 8.3; Evaluation of Self-Recording Thermal
Radiation Instruments (U), 26 P (U)
ABS: This project's objective was to evaluate two improved types of new
modifications of a Chemical Corps instrument used at Operation
Teapot and a commercial instrument for general use in measurement of
high-intensity radiant exposure.

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INUM: WT 1342
ADNO: 338042L
AUTH: Zirkind R.
CLSS: SRD
CORP: Naval Bureau of Aeronautics (Wash., DC)
DATE: 6007
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: TROPOSPHERIC OBSERVATION INTERMEDIATE RANGE OBSERVATION ;
EXPERIMENTAL TABULAR
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5
DESC: Nuclear Weapon Environment Infrared Output rate L1
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
REPN: WT 1342

PROJ: 8.5
SHOT: LACROSSE ; CHEROKEE ; ZUNI ; ERIE ; FLATHEAD
TSHO: LOW-ALT ; SURFACE
SUJO: 1-210-000 ; 1-340-000 ; 1-440-000 ; 1-540-000 ; 4-820-600 ;
5-200-000
TEMP: B9242 ; 59484 (DTIC)
TITL: Operation Redwing, Project 8.5; Airborne High-Resolution Spectral
Analysis (U), 70 P, (SRD)
ABS: The objectives of the project were: 1) compare the measurements of
the spectral irradiance recorded at an airborne station with that
recorded by a ground station for an air burst of a device in the
megaton region and a surface burst of a device in the same yield
range; 2) measure the spectral characteristics of the thermal
radiation as a function of time from a fireball unperturbed by the
reflected shock during the early portion of the thermal pulse; 3)
accumulate narrow-band spectral data with a high time resolution
heretofore unavailable over a large range of yields; 4) determine
the time variation of the irradiance color temperature; 5) correlate
results of high-resolution spectroscopy with broad-band calorimetry;
ABS: 6) check existing thermal scaling laws and modify and extend them
wherever possible and necessary; and 7) compare the thermal data
from surface detonations with that from air bursts. Sufficient data
was obtained to satisfy the objectives of this project. The
significant results include: 1) the irradiance history as a function
of wave length; 2) spectral dependence of the basic time parameters
of the thermal radiation; 3) agreement between airborne and surface
measurements of $t_{sub 1min}$ and $t_{sub 2max}$ when atmospheric effects
are taken into consideration; and 4) agreement between airborne and
ground-station observations of the estimated irradiance color
temperatures.

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WT 1342

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INUM: WT 1350

ABS: Standard Navy dosimeters DT-60/PD (phosphor glass) and IM-107/PD
(quartz fiber) were mounted on the surface of masonite man-sized
phantoms and exposed to radiation fields caused by deposited fallout
on the YAG-39 and YAG-40 in order to evaluate their response in
terms of the 3-to-5-cm-depth dose. This dose is considered a more
satisfactory indicator for the evaluation of acute effects to
personnel in nuclear warfare than is the air dose. Depth-dose
configurations in these phantoms were determined by means of
phosphate-glass needles. The radiation doses indicated by the
surface detectors were compared with those at a depth of 3 cm.

ABS: Differences and scatter in the readings of the two types of standard
dosimeters, and differences between the surface readings and the
depth readings, indicate that the DT-60/PD and IM-107/PD dosimeters
are not satisfactory in their present form for proper measurement

and interpretation of the radiation dose received by shipboard personnel above decks in a fallout field.; DOSEMETERS; DEPTH DOSE DISTRIBUTIONS; FALLOUT; GLASS; NUCLEAR EXPLOSIONS; PHANTOMS; QUARTZ CHALCOGENIDES; EXPLOSIONS; MEASURING INSTRUMENTS; MINERALS; MOCKUP; OXIDE MINERALS; OXIDES; OXYGEN COMPOUNDS; RADIATION DOSE DISTRIBUTIONS; SILICON COMPOUNDS; SILICON OXIDES; SPATIAL DOSE DISTRIBUTIONS; STRUCTURAL MODELS

ADNO: 465332
AUTH: Rainey S.C.
CLSS: U
CORP: NAVY BUREAU OF SHIPS (WASH., DC) ; NAVY MEDICAL RESEARCH INSTITUTE (BETHESDA, MD)
DATE: 5904
REPN: WT 1350
TTTL: Operation Redwing, Project 2.72; Evaluaiton of Standard Navy Dosimeters DT 60/PD AND IM-107/PD in Residual Radiation Fields Aboard Ships (U), 44 P (U)

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WT 1350

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copy: 1 id: 92039-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1353
AUTH: Ong C.J. ; Kowalsky i.T. ; Jacoby D.D.
CLSS: SRD
CORP: Army Signal Engineering Labs. (Ft. Monmouth, NJ)
DATE: 6003
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 VLF ELF
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1 VLF
ELF
EMPF: 213
REPN: WT 1353
PROJ: 6.5
SHOT: INCA ; HURON ; MOHAWK ; DAKOTA ; CHEROKEE ; NAVAJO ; TEWA ; YUMA ; LACROSSE ; ZUNI ; ERIE ; SEMINOLE ; FLATHEAD ; BLACKFOOT ; OSAGE ; KICKAPOO ; APACHE
TSHO: SURFACE ; WATER-SURFACE ; LOW-ALT
SUJO: 2-321-100 ; 2-510-000
TEMP: B9257 ; 31336
TTTL: Operation Redwing, Project 6.5; Measurement of Radio-Frequency Electromagnetic Radiation from Nuclear Detonations (U), 81 P (SRD)
ABS: The objective of Project 6.5 was to obtain, at several distances, oscillographic wave forms of the electromagnetic pulses generated by each of the nuclear detonations during Operation Redwing. These waveforms were to be analyzed to determine if correlation existed between selected pulse characteristics and various bomb parameters (yield, height of burst, device characteristics, etc.). Additional data was desired on the variation of pulse shape and field strength with distance. Information obtained from this study was to supply

design information for a system to detect detonations, locate ground zero, and measure yield and possibly height of burst at remote distances.

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WT 1353

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1368
ADNO: 357968L
AUTH: Banks J.E. ; Dick J.L. ; Pinson E.A.
CLSS: U (DECLASSD)
CORP: Air Force Weapons Lab. (Kirtland AFB, NM)
DATE: 5905
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Effects flight systems balloons airships
REPN: WT 1368
SHOT: ERIE ; INCA ; ZUNI ; FLATHEAD ; DAKOTA ; APACHE
SUJO: 3-119-000 ; 3-312-100
TEMP: B9262 ; 45729 ; D2450
TITL: Operation Redwing, Project 2.66b; Contact Radiation Hardad
Associated with Aircraft Contamination by Early Cloud Penetrations
(U), 36 P (U)

ABS: The contact hazard which personnel experience when working on radioactively contaminated aircraft was investigated. Measurements of the contact hazard are approximated by surveying the aircraft with a gamma survey instrument (T1B) and applying a correction factor to the readings obtained; 110 times the T1B reading (r/hr) will give the approximate contact dose (rep/hr) to the skin in areas of direct impingement of the contaminant, i.e., leading edge of the wing, nose, etc., whereas 40 times the T1B reading is applicable to the sliding surfaces, i.e., sides of the fuselage. The protection to an individual from the contact hazard realized by wearing gloves was also investigated. All gloves tested reduced the radiation intensity to the hands by at least 50 percent in addition to preventing the contaminant from coming in direct contact with the skin.

ABS: Wearing of gloves in radiation fields of 0.1 r/hr or more is recommended. It is recommended that Air Force publications be revised to indicate the lack of necessity for the decontamination of radioactively contaminated aircraft by Air Force Operational organizations.

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WT 1368

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1410
ADNO: 360822L
AUTH: Krey P.W. ; Wilsey E.F. ; McNeilly J.H. ; Peterson D.D. ; Bloore
E.W.
CLSS: SRD
CORP: Army Chemical Warfare Labs. (Army Chemical Center, MD)
DATE: 6005
DESC: Radiation Transport x-ray L5 SCATTER
DESC: Soil Rock Properties Equation of State Conductivity L5 NTS SOIL
ANALYSIS
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
ACTIVATED SOIL
DESC: Cross Sections gamma L5 ABSORPTION COEFFICIENTS OF SOIL
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5 P 44-46
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
REPN: WT 1410
PROJ: 2.1
SHOT: FRANKLIN ; LASSEN ; WILSON ; PRISCILLA ; OWENS
TSHO: LOW-ALT
SUJO: 1-110-000 ; 2-223-200 ; 2-223-420 ; 2-225-100 ; 6-300-000 ;
9-640-000 ; 9-830-000
TEMP: C0184 ; 59534 ; D2445
TITL: Operation Plumbbob, Project 2.1; Soil Activation by Neutrons (U),
114 P, (SRD)
ABS: The overall objective of this project was to investigate the
induction of gamma-emitting radioisotopes in homogeneous soils by
nuclear detonations and the subsequent generation of hazardous
radiation levels in the vicinity of these detonations, so that the
radiological hazard to personnel in these areas could eventually be
predicted. The specific objectives were: 1) to measure the field
dose rates from neutron-induced activity in several American soils;
2) to measure the thermal-neutron flux as a function of depth
beneath the surface and distance from ground zero for several
American soils; 3) to analyze the gamma spectra on the induced
nuclides in the soil as a function of depth beneath the surface of
two different American soils; 4) to check these data with
theoretical estimations of such effects, and 5) to examine the
effect of moisture content in soil activation.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1411
ADNO: 338519L
AUTH: Cook C.S. ; Thompson W.E. ; Tomnovec F.M. ; Mathe R.L. ; Ferguson
J.M. ; Howland P.R.

CLSS: SRD
CORP: Naval Radiological Defense Lab. (San Francisco-CA)
DATE: 5907
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
NEUTRON INDUCED
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5
REPN: WT 1411
PROJ: 2.2
SHOT: WILSON ; OWENS ; LAPLACE
TSHO: LOW-ALT
SUJO: 1-110-000 ; 2-223-200
TEMP: C0185 ; 59496 ; D2444
TITL: Operation Plumbbob, Project 2.2; Neutron-Induced Activities in Soil
Elements (U), 82 P (SRD)

ABS: The objective of this project was to gather information concerning
the radioactivity produced by the interaction of neutrons from a
nuclear device with materials that normally constitute a soil and to
correlate this information with measurements of the resulting
gamma-radiation fields. This objective was one phase in the study of
operational methods for the prediction of gamma-radiation field
intensities resulting from the tactical use of a nuclear weapon
detonated at such a height that negligible fallout occurs in the
vicinity of ground zero.

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WT 1411

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INUM: WT 1412
ADNO: 338341L
AUTH: Rigotti D. ; Kinch J.W. ; Funsten H.O. ; Binkowski B.B.
CLSS: SRD
CORP: Army Chemical Warfare Labs. (Army Chemical Center, MD)
DATE: 6004
DESC: Cross Sections neutron L5
DESC: Nuclear weapon test yield L9 P17
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L7 P46
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: test instruments nuclear radiation neutron L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
REPN: WT 1412
PROJ: 2.3
SHOT: FRANKLIN ; LASSEN ; WILSON ; PRISCILLA ; HOOD ; OWENS ; DOPPLER ;
SMOKY ; LAPLACE ; JOHN
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-120-000 ; 4-342-000 ; 4-835-000 ; 4-841-000 ;

9-820-000

TEMP: C0186 ; 59495 ; D2443

TITL: Operation Plumbbob, Project 2.3; Neutron Flux from Selected Nuclear Devices (U), 60 P (SRD)

ABS: The objectives of Project 2.3 in Operation Plumbbob were to: 1) measure the neutron flux versus ground range for selected nuclear devices, and 2) provide neutron flux and dose measurements as required in support of other projects.

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WT 1412

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1413

ADNO: 342209L

AUTH: Tompkins R.C. ; Weaver C.F. ; Peterson G.A.

CLSS: SRD

CORP: Army Chemical Warfare Labs. (MD)

DATE: 6101

DESC: Nuclear Weapon Effects structures field fortifications L1 NEUTRON
GAMMA FOXHOLE HASTYSHELTER

DESC: Cross Sections neutron L1 CONCRETE STEEL SOIL

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L5

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Cross Sections gamma L1 CONCRETE STEEL SOIL

DESC: Nuclear Weapon Effects land transport armored vehicles L1 NEUTRON
GAMMA WITHIN VEHICLE TANKS

DESC: Nuclear Weapon Effects structures underground structures lined L1
NEUTRON GAMMA

DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL

REPN: WT 1413

PROJ: 2.4

SHOT: OWENS ; PRISCILLA ; FRANKLIN ; LASSEN ; WILSON ; HOOD

TSHO: LOW-ALT

SUJO: 1-110-000 ; 3-140-000 ; 3-151-000 ; 3-262-000 ; 4-140-000 ;

9-820-000 ; 9-830-000

TEMP: C0187 ; 59487 ; D2442

TITL: Operation Plumbbob, Project 2.4; Neutron and Initial-Gamma Shielding (U), 120 P., (SRD)

ABS: The objectives of this project were to: 1) perform neutron- and gamma-shielding tests on structures, shelters, fortifications, and M-48 tanks to fill in the gaps in existing empirical data; 2) determine relative neutron and gamma inside/outside dose ratios for two types of tank armor, which the Ordnance Corps will attempt to correlate with contemplated laboratory shielding studies; and 3) perform neutron- and gamma-attenuation studies in soil in order to obtain an indication of the variation of gamma dose, neutron dose,

and neutron spectrum with depth. A secondary objective was added after the project was in the field: 4) perform neutron and gamma shielding tests on Ontos vehicles.

TREE: 411 ; 412

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INUM: WT 1414

AUTH: Carp G. ; Johnson O. ; Bladwin T. ; Larrick R. ; Markow B. ; Lavicka F. ; McAfee W.

CLSS: SRD

CORP: Army Signal and Development Lab. (Ft. Monmouth, NJ)

DATE: 6104

REPN: WT 1414

TEMP: C0190 ; D2441

TITL: Operation Plumbbob, Project 2.5; Initial-Gamma Radiation Intensity and Neutron-Induced Gamma Radiation of NTS Soil (U), 135 P., (SRD)

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WT 1414

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INUM: WT 1416

AUTH: Hanscome T.D. ; Caldwell P.A. ; Gobics S.G. ; Jones E.C. ; Kunz W.E. ; Pearse C.A. ; Stout C.M.

CLSS: SRD

CORP: Naval Research Lab. (Wash., DC)

DATE: 6205

DESC: EARLY TIME CLOSE-IN OBSERVATION MICROWAVE ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature Density Particle Velocities L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

EMPF: 213

REPN: WT 1416

PROJ: 2.7

SHOT: BOLTZMANN ; HOOD ; WILSON ; OWENS ; KEPLER ; DIABLO ; PRISCILLA

TSHO: LOW-ALT

SUJO: 1-740-000 ; 2-110-000 ; 2-130-000 ; 2-321-100 ; 2-510-000

TEMP: 45080 ; C0192

TITL: Operation Plumbbob, Project 2.7; Investigation of Effects of Nuclear Detonations on Electromagnetic Wave Propagation and Nuclear

Radiation Detector Design (U), 99 P (SRD)

ABS: The objectives were to: 1) proof test (at Nevada Test Site altitudes) telemetry and nuclear radiation detection techniques intended for use in measurements of effects of high-altitude nuclear detonations, 2) study radio wave propagation in the vicinity of nuclear detonations, 3) study the effects of the electromagnetic signal produced by the detonation on the equipment used, and 4) compare the calculated and measured attenuations.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1417
ADNO: 360872L
AUTH: DiIanni E.J. ; Riggin F.C.
CLSS: U (DECLASSED)
CORP: Naval Material Lab. (Brooklyn, NY)
DATE: 5911
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: test instruments nuclear radiation dosimeters radiaes
DESC: test instruments nuclear radiation gamma
REPN: WT 1417
SHOT: DIABLO ; HOOD ; PRISCILLA ; WILSON
TSHO: LOW-ALT ; LOW-ALT
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 4-341-000 ; 4-346-000
TEMP: 59090 ; D2460
TITL: Operation Plumbbob, Project 2.8; Evaluation of Military Radiac (U),
55 P (U)

ABS: Objectives of Project 2.8 were to 1) develop suitable shields for Navy dosimeter types IM-107/PD (quartz fiber) and DT-60/PD (silver phosphate glass) in order to correct their response to agree with that of standard depth dose detectors imbedded 4 cm in masonite phantoms and 2) compare externally held ratemeter readings with that of a dose-rate standard also imbedded 4 cm in masonite phantoms. Based on laboratory gamma shielding studies conducted in the range 80 kev to 1.25 Mev, external shelds were developed for use with the above dosimeters. The masonite phantoms were designed to simulate average human torso configurations. The effectiveness of the shields in actual field radiological situations was determined in the distributed fields resulting from the induced radiation from Shots Wilson, Priscilla, and Hood and the fallout field from shot Diablo.

ABS: Studies were made of the correlation between dose rates as measured by the AN/PDR-43 (XN-1) and the AN/PDR-44(XN-1) and the dose rates indicated by the Naval Material Laboratory standard depth-dose ratemeter. The results of the measurements performed indicate that

the laboratory shields provided for the IM-107/PD is adequate to provide good correlation with depth dose. Additional shielding is required for the DT-60/PD. Shielding is needed for the AN/PDR-43 and the AN/PDR-44. Results were similar for both neutron-induced and fallout fields.

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WT 1417

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INUM: WT 1418

AUTH: Kaericher K.C. ; Martin T.P. ; Banks J.E.

CLSS: SFRD

CORP: Air Force Weapons Lab (Kirtland AFB-NM)

DATE: 5905

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: EXPERIMENTAL

REPN: WT 1418

SHOT: JOHN

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000

TEMP: C0194 ; 49152

TITL: Operation Plumbbob, Project 2.9; Nuclear Radiation Received by
Aircrews Firing the MB-1 Rocket (U), 16 P (SFRD)

ABS: The objective of this project was to measure the total neutron and
gamma dosages received by an aircrew delivering the MB-1 rocket at
an altitude of 19,000 feet MSL. As a secondary objective, the same
type measurements were made at locations other than the crew
compartment and on other aircraft in the delivery array.

TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1419

ADNO: 464381

AUTH: York E.N. ; Boyd R.E. ; Blaylock J.A.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6002

DESC: Nuclear Weapon Environment Prompt Neutron source strength total

fluence

DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Test Simulation Field Programs experiment design gamma experiments

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: Nuclear Test Simulation Field Programs experiment design neutron experiments

REPN: WT 1419

SHOT: BOLTZMANN ; WILSON ; HOOD ; OWENS ; DIABLO ; LASSEN ; KEPLER ; JOHN

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 4-341-000 ; 4-346-000 ; 4-820-300 ; 4-820-400

TITL: Operation Plumbbob, Project 2.10; Initial Neutron and Gamma Air-Earth Interface Measurements (U), 68 P (U)

ABS: The objective of this project was to determine the effect of the air-ground interface on measurements of integrated gamma dose, initial gamma dose rate versus time, and neutron flux on the ground as compared to measurements taken in free air. This objective was accomplished by measuring the integrated gamma dose and neutron flux at points on the ground and at corresponding points in the air at heights up to approximately 950 feet and by measuring the gamma dose rates during the initial 10 seconds at points on the ground and at corresponding points approximately 950 feet above the ground. Tethered balloons were used to carry the gamma-dose-rate equipment and other instruments. Measurements of integrated gamma dose and neutron flux were made at intervals along the balloon mooring cables.

TREE: 910 ; 920

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WT 1419

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1420

ADNO: B001855

AUTH: FLATHAU W.J. ; BRECKENRIDGE R.A. ; WIEHLE C.K

CLSS: U

CORP: ARMY/CORPS OF ENGINEERS (VICKSBURG-MS) ; NAVY/CIVIL ENGINEERING LABORATORY (PORT HUENEME-CA)

DATE: 5906

DESC: Environmental Conditions at Nuclear Weapon Test Site geology L1

DESC: Nuclear Weapon Effects materials wood paper cellulose films L9

RECORDING PAPER AND FILM RADIATION P 122-

DESC: Nuclear Weapon Effects structures underground models spheres domes arches L1 BLAST AND SHOCK ARCHES CLOSE IN

DESC: EXPERIMENTAL ; Summary in CEX 68.3

DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1 CLOSE IN
REPN: WT 1420
PROJ: 3.1
SHOT: PRISCILLA
TSHO: LOW-ALT
SUJO: 2-611-000 ; 3-246-000 ; 3-269-100 ; 4-311-000 ; 4-313-000 ;
4-842-000
TITL: BLAST LOADING AND RESPONSE OF UNDERGROUND CONCRETE-ARCH PROTECTIVE
STRUCTURES (U), OPERATION PLUMBBOB-PROJECT 3.1, (U)

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INUM: WT 1422
ADNO: 615737
AUTH: Albright G.H. ; Beck E.J. ; LeDoux J.C. ; Mitchell R.A.
CLSS: U
CORP: Navy Bureau of Yards and Docks (Wash., DC) ; Naval Civil Engineering
Lab. (Pt. Hueneme-CA)
DATE: 6102
DESC: Nuclear Test Simulation Field Programs experiment design underground
systems
DESC: Nuclear Weapon Environment Prompt Neutron initial gamma source
strength total fluence
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings
underground models arches
DESC: EXPERIMENTAL; Summary in CEX 68.3
DESC: test instruments nuclear radiation fallout debris sampling
collectors
REPN: WT 1422
SHOT: PRISCILLA
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 3-236-000 ; 3-269-100 ; 4-345-000 ;
4-829-300
TITL: Operation Plumbbob, Project 3.3; Evaluation of Buried
Corrugated-Steel Arch Structures and Associated Components (U), 111
P (U)

ABS: The test effort was concentrated on three basic components of a
personnel shelter--the shelter structure, the blast closure valve,
and the electric power source. The objectives were to: 1) determine
the degree of protection from blast and radiation afforded by
earth-covered, corrugated-steel arch structures, 2) determine the
blast capabilities of a blast closure valve, and 3) determine the
suitability of open pits for blast protection of power generators.

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created: 12/27/1991 type: REPORT permanent
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INUM: WT 1428
ADNO: 460308
AUTH: McDonnel G.M. ; Crosby W.H. ; Tessmer C.F. ; Moncrief W.H. Jr. ;
Baker H.J. ; Goldstein J.D. ; Woodward K. ; Shively J.N. ; Daniell
H.W. ; Horava A. ; Claypool H.A.
CLSS: U
CORP: Army Walter Reed Army Institute of Research (Wash., DC)
DATE: 6108
DESC: Nuclear Weapon Effects animals
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design medical
REPN: WT 1428
SHOT: PRISCILLA ; WILSON
TSHO: LOW-ALT
SUJO: 3-310-000 ; 4-827-000
TITL: Operation Plumbbob, Project 4.; Effects of Nuclear Detonations on a
Large Biological Specimen (Swine) (U), 197 P (U)
ABS: The data presented in this report results from investigation of the
effect of nuclear devices on a large biological specimen (swine) in
the following fields: injuries caused by the nuclear device, wounds
produced by glass missiles as the wounding agent, and radiation
studies with exposure to both gamma rays and neutrons. The pig was
chosen as the biological target because this animal approximated the
human in cross section (for the radiation study) and has been the
subject of previous study. The data obtained is extrapolated,
wherever possible, to humans.

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WT 1428
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: WT 1431
ADNO: 360874L
AUTH: Gilstad D.A. ; Weeber C.G. ; Kviljord A. ; Woods G.W.
CLSS: U (DECLASSED)
CORP: Navy Bureau of Aeronautics (Wash., DC) ; Naval Air Material Center
(Philadelphia, PA)
DATE: 6004
DESC: Nuclear Weapon Effects flight systems balloons airships L1 FRANKLIN
AND STOKES
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L5 ARRIVAL TIME.L5
REPN: WT 1431
SHOT: FRANKLIN ; STOKES ; WILSON ; KEPLER ; OWENS

TSHO: LOW-ALT
SUJO: 2-611-000 ; 3-119-000
SYST: ZSG-3 AIRSHIP
TEMP: A7508-I ; 59089 ; D2437
TITL: Operation Plumbbob, Project 5.2; Structural Response and Gas Dynamics of an Airship Exposed to a Nuclear Detonation (U), 78 P., (U)

ABS: The basic objective of Project 5.2 was to determine the response characteristics of the Model ZSG-3 airship when subjected to a nuclear detonation in order to establish criteria for safe escape distances for airship delivery of antisubmarine warfare (ASW) special weapons. The results should be directly applicable to the ZSG-4 airship type and generally applicable to all other airship types. Specifically, the test program was arranged to secure data in the following major categories: 1) dynamic response of the entire airship and its structural members to various energy input levels, 2) temperature rise and distribution in the airship envelope as a result of thermal radiation, 3) shock-wave propagation in the airship envelope, and 4) vulnerability of structural components that would restrict the weapon-delivery capabilities of the weapon system.

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WT 1431

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copy: 1 id: 92084-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1437
ADNO: 311158
AUTH: LEE W.S. ; KRUMBOLTZ H.D. ; GIMBER G.A.
CLSS: U (DECLASSIFIED)
CORP: NAVY/NAVAL AIR DEVELOPMENT CENTER (JOHNSVILLE-PA)
DATE: 6006
DESC: test instruments EM propagation atmospheric chemistry transmitters
receivers antennas L9 P 39
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise L1
DESC: HF VHF UHF MICROWAVES ; EXPERIMENTAL
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
REPN: WT 1437
PROJ: 6.3
SHOT: WILSON ; FRANKLIN ; LASSEN
TSHO: LOW-ALT
SUJO: 2-321-100 ; 4-324-000 ; 4-823-000
TEMP: 23502
TITL: ATTENUATION OF ELECTROMAGNETIC RADIATION THROUGH AN IONIZED MEDIUM,
OPERATION PLUMBBOB, PROJECT 6.3 (U), 57 P (C)

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WT 1437

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cat1: cat2: home: STACKS current: STACKS
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INUM: WT 1439
AUTH: ELDER G.E.
CLSS: SRD 1
CORP: ARMY/ORDNANCE MISSION (WHITE SANDS MISSILE RANGE-NM)
DATE: 6010
DESC: Nuclear Weapon Effects missile systems ABM L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: Nuclear Weapon Effects materials plastics resins L1 NUCLEAR
RADIATION DIELECTRICS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 VACUUM TUBES
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L9 P 27
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
REPN: WT 1439
PROJ: 6.5
SHOT: OWENS ; MORGAN ; FIZEAU ; WILSON
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 3-112-200 ; 3-211-000 ; 3-221-000 ;
3-229-000 ; 3-244-000
TEMP: C0200 ; 45081
TITL: EFFECTS OF NUCLEAR DETONATIONS ON NIKE HERCULES, OPERATION PLUMBBOB,
PROJECT 6.5 (U), 96 P (SRD)
TREE: 392

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WT 1439

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cat1: cat2: home: STACKS current: STACKS
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INUM: WT 1440
ADNO: 460309
AUTH: BABERS F.H. ; MCQUADE A.J.
CLSS: U
CORP: ARMY/QUARTERMASTER RESEARCH AND ENGINEERING COMMAND
(NATICK-MASSACHUSETTS)
DATE: 5906
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Effects on animals thermal burns heating
DESC: Nuclear Weapon Effects supply

DESC: EXPERIMENTAL
REPN: WT 1440
SHOT: PRISCILLA ; HOOD
TSHO: LOW-ALT
SUJO: 1-210-000 ; 3-170-000 ; 3-313-100 ; 4-341-000
TITL: THERMAL PROTECTION OF THE INDIVIDUAL SOLDIER, OPERATION PLUMBBOB,
PROJECT 8.1, WEAPON TEST REPORT (U), 46 P (U)

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WT 1440

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1445
CLSS: SRD 1
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)
DATE: 6208
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION
DESC: Nuclear Weapon Effects materials fibers textiles L1
DESC: Nuclear Weapon Effects structures underground models spheres domes
arches L1 BLAST
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: Nuclear Weapon Effects structures aboveground models spheres domes
arches L1 BLAST
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1
DESC: Nuclear Weapon Effects flight systems airplanes L1 BLAST THERMAL
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: CLOSE IN OBSERVATION INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL
SURVEY
DESC: Nuclear Weapon Environment Airblast height-of-burst HOB L1
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1 ARRIVAL TIME.L1
DESC: Nuclear weapon test yield L1 ALL SHOTS IN PLUMBBOB
DESC: Nuclear Weapon Effects missile systems ABM L1 NUCLEAR RADIATION
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
NUCLEAR RADIATION
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1 ALL
SHOTS IN PLUMBBOB
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L1
DESC: Nuclear Weapon Effects materials metals alloys L1 THERMAL CLOSE IN

REPN: WT 1445
SHOT: PRISCILLA ; SMOKY ; JOHN ; OWENS ; FRANKLIN ; WILSON ; BOLTZMANN ;
LASSEN ; HOOD ; DIABLO ; KEPLER ; STOKES ; SHASTA ; DOPPLER ;
FRANKLIN PRIME ; GALILEO ; WHEELER ; LAPLACE ; FIZEAU ; NEWTON ;
RAINIER ; WHITNEY ; CHARLESTON ; MORGAN
TSHO: LOW ALT
SUJO: 1-110-000 ; 1-210-000 ; 1-240-000 ; 1-710-000 ; 1-740-000 ;
2-225-100 ; 2-611-000 ; 2-612-000 ; 2-613-100 ; 2-621-000 ;
3-111-000 ; 3-112-200 ; 3-211-000 ; 3-221-000 ; 3-242-000 ;
3-243-000 ; 3-246-000 ; 3-259-100 ; 3-269-100 ; 3-313-100 ;
4-835-000 ; 4-841-000
TEMP: C0203 ; 31333
TITL: TECHNICAL SUMMARY OF MILITARY EFFECTS, PROGRAMS 1-9, OPERATION
PLUMBBOB, MAY-OCTOBER 1957 (U), 225 P (SRD)

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WT 1445

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INUM: WT 1453
ADNO: 611259
AUTH: COHEN E. ; DOBBS N.
CLSS: U
CORP: AMMANN AND WHITNEY (NEW YORK-NEW YORK)
DATE: 6206
DESC: Nuclear Test Simulation Field Programs experiment design underground
systems
DESC: Nuclear Weapon Effects structures underground structures lined
DESC: CHARLESTON ; EXPERIMENTAL ; Summary in CEX 68.3
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
REPN: WT 1453
SHOT: SMOKY ; GALILEO ; WHITNEY
TSHO: LOW-ALT
SUJO: 2-611-000 ; 2-612-000 ; 2-621-000 ; 3-262-000 ; 4-346-000 ;
4-829-300
TITL: TEST OF FRENCH UNDERGROUND PERSONNEL SHELTERS, OPERATION PLUMBBOB,
PROJECT 30.6, WEAPON TEST REPORT (U), 295 P (U)

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WT 1453

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1454
ADNO: 691407
AUTH: COHEN E. ; BOTTENHOFER A.
CLSS: U
CORP: AMMANN AND WHITNEY (NY)
DATE: 6206
DESC: Nuclear Weapon Environment Airblast dynamic pressure L5 static
overpressure L5 ground shock L5 Initial Gamma L5
DESC: Nuclear Weapon Effects materials plastics resins L5 ENSOLITE SHOCK
ABSORBING MATERIAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
DESC: Nuclear Weapon Effects structures underground structures Nine
structures were exposed at predicted overpressure levels from 7.4 to
264.6 psi on Smoky. Summary in CEX 68.3 additional information in WT
1536.
DESC: BLAST AND SHOCK NUCLEAR RADIATION TRANSIENTS FALLOUT INTERMEDIATE
RANGE OBSERVATION ; EXPERIMENTAL TABULAR
DESC: Nuclear Test Simulation Field Programs experiment design structures)
L5
REPN: WT 1454
PROJ: 30.7
SHOT: SMOKY ; STOKES ; GALILEO ; WHITNEY ; CHARLESTON
TSHO: LOW-ALT
SUJO: 1-710-000 ; 2-223-200 ; 2-611-000 ; 2-612-000 ; 2-622-000 ;
2-623-000 ; 3-244-000 ; 3-262-000 ; 4-829-200
TITL: TEST OF GERMAN UNDERGROUND PERSONNEL SHELTERS (U), 266 P, (U) TEST
DIRECTOR, CIRCA 240 P, (U)

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WT 1454

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1464
ABS: The objective of project 32.3 was to evaluate some operational
characteristics of a radio-logical shelter and to determine values
for some countermeasures-system parameters. The operation consisted
of two phases, the first involving measurements made by project
personnel in a manned station having the the characteristics of a
high-performance radiological shelter and the second involving
monitoring and reclamation operations in an area near the shelter
beginning about 1 hr after burst.
ABS: Measurements were made inside the shelter beginning at shot time to
(1) test a simple shelter monitoring system, (2) test a proposed
ventilation intake configuration intended to eliminate a requirement
for filtration of the shelter air supply, (3) determine the
effective gamma-radiation shielding afforded by an operational
shelter, including two different exhaust ventilation configurations
and a simple entrance configuration, and (4) determine those
radiation and fallout characteristics needed to evaluate the
operational measurements. The second phase involved (1) the test of

a key-point initial monitoring technique, (2) the test of two proposed techniques for determining reclamation effectiveness in advance of reclamation operations, (3) the test of the feasibility of achieving a residual number of 0.01 in a cleared area, and (4) the test of a barrier as an alternative to a buffer zone.

ABS: Data was obtained on two shots (Diablo and Shasta). The shelter, having a minimum earth-cover thickness of 3 ft, provided an average shielding reduction factor of about 10,000. All openings in the earth cover for ventilation and other purposes were satisfactory from a radiological point of view with the exception of the straight entrance way. The shelter monitoring system provided adequate information. The air-filter data showed no requirement for air filtration at air intake flow rates of 300 to 600 cfm with the intake configuration used. All objectives in the second phase were successfully met with one exception. It was not possible to obtain an adequate test of the feasibility of achieving a residual number of 0.01 in the staging area because of the poor condition of the test area.

ADNO: 611260

AUTH: STROPE W.E.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)

DATE: 5909

DESC: Civil Defense shelters L1

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Environment radiation decay gamma decay

REPN: WT 1464

SHOT: DIABLO ; SHASTA

TSHO: LOW-ALT

SUJO: 2-223-100 ; 2-223-420 ; 3-312-210 ; 3-448-900 ; 3-474-000 ; 4-341-000 ; 4-821-000

TITL: EVALUATION OF COUNTERMEASURE SYSTEM COMPONENTS AND OPERATIONAL PROCEDURES, OPERATION PLUMBBOB, PROJECT 32.3, WEAPON TEST REPORT (U), 159 P (U)

TNFF: 6250 ; 6290

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WT 1464

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copy: 1 id: 92105-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1477

ADNO: 611263

AUTH: TITUS W.F.
CLSS: U
CORP: FEDERAL CIVIL DEFENSE ADMINISTRATION (BATTLE CREEK-MICHIGAN)
DATE: 6004
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Cross Sections gamma
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
REPN: WT 1477
SUJO: 2-223-200 ; 4-821-000 ; 9-830-000
TITL: PENETRATION INTO CONCRETE OF GAMMA RADIATION FROM FALLOUT, OPERATION
PLUMBBOB,PROJECT 35.1, WEAPON TEST REPORT (U), 28 P (U)

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WT 1477

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1482
ADNO: 611235
AUTH: KILLIAN B.C. ; EMMONS A.H.
CLSS: U
CORP: FEDERAL CIVIL DEFENSE ADMINISTRATION (WASHINGTON-DC)
DATE: 5909
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: Nuclear Weapon Test administration
REPN: WT 1482
SUJO: 4-821-000 ; 4-851-000
TITL: FIELD RADIOLOGICAL DEFENSE TECHNICAL OPERATIONS, OPERATION PLUMBBOB,
PROJECT 36.1, REPORT TO THE TEST DIRECTOR (U), 43 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1489
ADNO: 339501L
AUTH: HAAS P.H. ; SHAULL J.M. ; BEHRENS W.V.
CLSS: U (DECLASSED)
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6010
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION
REPN: WT 1489

PROJ: 6.2A
SHOT: PRISCILLA ; HOOD
TSHO: LOW-ALT
SUJO: 3-221-000
TEMP: 45606
TITL: EFFECT OF NUCLEAR RADIATION ON SEMICONDUCTOR DEVICES, OPERATION
PLUMBBOB, PROJECT 6.21 (U), 20 P (SRD)

TREE: 310

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WT 1489

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copy: 1 id: 92122-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1493

ABS: Chemical dosimetry studies were made to estimate human exposures to prompt and residual radiations from nuclear detonations. They include measurements of: (1) gamma radiation from fall-out at on-stie and off-stie areas; (2) air-dose and depth-dose distribution determinations in human phantoms placed at positions calculated to receive prompt neutron and ..gamma..-radiation exposures in the dose range of medical interest (0 to 1000 rads); and (3) estimates of ..gamma.. and mixed neutron plus ..gamma.. radiation exposures that might aid in the evaluation of Japanese who survived prompt-..gamma.. exposures at Nagasaki as compared with neutron plus ..gamma.. exposures at Hiroshima. The feasibility of using direct-reading chemical dosimeters for estimating ..gamma..-ray exposures from nuclear fall-out and from prompt bomb ..gamma.. radiations was demonstrated.

ABS: The responses of single-phase dosimeters to ..gamma.. rays plus neutrons provided a useful index of the total exposure. The present estimates regarding human median lethal (LD/sub 50/) doses of whole-body ..gamma.. radiation, namely about 350 r for multidirectional exposures from fall-out and about 450 r for unidirectional prompt-..gamma.. exposures, are in accord with each other on the basis of depth-dose distribution results and integral-dose calculations. On the same basis, the LD/sub 50/ dose for a mixed neutron-..gamma.. ray exposure in equal amounts should be about 450 rads or less, depending on the relative biological effectiveness (RBE) values used for neutrons.;

GAMMA RADIATION;
DOSIMETRY; NEUTRONS; DOSIMETRY; CHEMICAL DOSEMETERS; DEPTH DOSE DISTRIBUTIONS; FALLOUT; HIROSHIMA; INTEGRAL DOSES; LETHAL DOSES; NAGASAKI; NUCLEAR EXPLOSIONS; PHANTOMS; PROMPT GAMMA RADIATION;

ABS: PROMPT NEUTRONS; RADIATION DOSES; RBE; WHOLE-BODY IRRADIATION ASIA; BARYONS; DOSEMETERS; DOSES; ELECTROMAGNETIC RADIATION; ELEMENTARY PARTICLES; EXPLOSIONS; EXTERNAL IRRADIATION; FERMIONS; FISSION NEUTRONS; GAMMA RADIATION; HADRONS; IONIZING RADIATIONS; IRRADIATION; JAPAN; MEASURING INSTRUMENTS; MOCKUP; NEUTRONS; NUCLEONS; RADIATION DOSE DISTRIBUTIONS; RADIATION DOSES; RADIATIONS; SPATIAL DOSE DISTRIBUTIONS; STRUCTURAL MODELS

ADNO: 611249

AUTH: TAPLIN G.V. ; MALIN K.H. ; GRISWOLD M.L. ; PAGLIA D.E.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6102

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: WT 1493

SHOT: SHASTA ; FRANKLIN PRIME ; DOPPLER

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 3-312-100 ; 3-312-210 ;
4-346-000

TITL: CHEMICAL DOSIMETRY OF PROMPT AND RESIDUAL RADIATIONS FROM NUCLEAR
DETONATIONS, OPERATION PLUMBBOB, PROJECT 37.5, REPORT TO THE TEST
DIRECTOR (U), 34 P (U)

TREE: 910 ; 920

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WT 1493

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1496

ADNO: 611237

AUTH: LEININGER H.V. ; LAUG E.P. ; MCCONNELL H.J. ; CHAPMAN R.D. ; KOELZ
S.E. ; SPIHER A.T.

CLSS: U

CORP: FOOD AND DRUG ADMINISTRATION (WASHINGTON-DC), FEDERAL CIVIL DEFENSE
ADMINISTRATION (BATTLE CREEK-MI)

DATE: 5905

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects supply food water

EFFT: NUCLEAR RADIATION ; LOCAL FALLOUT

REPN: WT 1496

TSHO: LOW-ALT

SUJO: 3-171-000

TITL: EFFECT OF FALLOUT CONTAMINATION ON PROCESSED FOODS, CONTAINERS, AND
PACKAGING, OPERATION PLUMBBOB PROJECT 38.1-1, REPORT TO THE TEST
DIRECTOR (U), 19 P (U)

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WT 1496

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created: 12/27/1991 type: REPORT permanent
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INUM: WT 1500
ADNO: 339464L
AUTH: SIGOLOFF S.C. ; LOGIE L.C. ; BORELLA H.M. ; PICKERING J.E.
CLSS: U (DECLASSED)
CORP: AIR FORCE/SCHOOL OF AEROSPACE MEDICINE (BROOKS AIR FORCE BASE-TEXAS)
DATE: 6002
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: CHARLESTON ; EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
REPN: WT 1500
SHOT: FRANKLIN ; WILSON ; PRISCILLA ; HOOD ; DIABLO ; KEPLER ; STOKES ;
DOPPLER ; FRANKLIN PRIME ; SMOKY ; LAPLACE ; FIZEAU ; CHARLESTON
TSHO: LOW-ALT
SUJO: 1-710-000 ; 4-346-000 ; 4-820-400 ; 4-841-000
TEMP: 51462
TTTL: RADIATION MEASUREMENTS UTILIZING THE USAF CHEMICAL DOSIMETERS,
OPERATION PLUMBBOB, PROJECT 39.1, WEAPON TEST REPORT (U), 64 P (SRD)
TREE: 655

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WT 1500

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: WT 1507
ADNO: 611264
AUTH: RICHMOND D.R. ; WHITE C.S. ; SANCHEZ R.T. ; SHERPING F.
CLSS: U
CORP: LOVELACE FOUNDATION (ALBUQUERQUE-NEW MEXICO)
DATE: 6005
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals blast shock
DESC: Nuclear Test Simulation Field Programs experiment design medical
REPN: WT 1507
SHOT: SMOKY
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 2-611-000 ; 3-311-000 ; 3-312-000 ;

4-827-000

TITL: INTERNAL ENVIRONMENT OF UNDERGROUND STRUCTURES SUBJECTED TO NUCLEAR
BLAST. II.EFFECTS ON MICE LOCATED IN HEAVY CONCRETE SHELTERS,
OPERATION PLUMBBOB, PROJECT 33.6, WEAPON TEST REPORT (U), 25 P (U)

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WT 1507

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1509

ADNO: A077508

AUTH: SIGOLOFF S.C. ; BORELLA H.M.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)

DATE: 5905

DESC: CHARLESTON ; EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Test Simulation Field Programs experiment design fallout

radioactivity

REPN: WT 1509

SHOT: BOLTZMANN ; PRISCILLA ; DIABLO ; KEPLER ; SHASTA ; SMOKY ; FIZEAU ;
NEWTON ; WHITNEY

TSHO: LOW-ALT

SUJO: 2-223-420 ; 4-341-000 ; 4-821-000

TITL: REMOTE RADIOLOGICAL MONITORING, OPERATION PLUMBBOB, PROJECT 39.9,
REPORT TO THE TEST DIRECTOR (U), 90 P (U)

TREE: 651

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WT 1509

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1510

ABS: Plutonium air concentrations and surface and subsurface
contamination have been measured. Detailed results are documented
and their implications are discussed. Mathematical models,
constructed from analysis of test data, are used to calculate the
amounts of breathed plutonium for some extreme wind conditions.

ADNO: 342535L

AUTH: COWAN M.

CLSS: SRD-1

CORP: SANDIA CORPORATION (ALBUQUERQUE-NEW MEXICO)

DATE: 6102

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: EXPERIMENTAL
DESC: Nuclear weapon safety radiological
REPN: WT 1510
SUJO: 4-345-000 ; 4-838-100
TEMP: C0327 ; 51469 (DTIC)
TITL: PLUTONIUM CONTAMINATION FROM ONE-POINT DETONATION OF AN XW-25,
OPERATION PLUMBBOB, PROGRAM 71, WEAPON TEST REPORT (U), 136 P (SRD)

TNFF: 8859

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WT 1510

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1511

ABS: On April 24, 1957, a high-explosive detonation was employed at the Nevada Test Site to release plutonium for field study of this fissile material as a contaminant. One of four major measurement programs was a biomedical experiment which comprised exposure of animals to first deposition of plutonium oxide from the detonation cloud (acute subjects) and to the wind-induced resuspension of contamination (chronic subjects) as long as six months after original deposition. Acute subjects (26 dogs and 40 rats) were arrayed 500, 1000, and 2000 feet downwind from Ground Zero, and nine rats were flown on balloon cables positioned to intercept the cloud 500 feet from Ground Zero.

ABS: Chronic subjects (three groups of 24 dogs and 3 burros) were placed, after a rough ground-activity survey, at climatologically probable downwind segments of isopleths marking nominal contaminations of 1000, 100 and 10 microgram of plutonium per square meter. Serial sacrifices of dogs were made at 4, 5, 16, 32, 64, 128, and 161 days after detonation. Ten tissues per animal were assayed by radiochemistry and auto radiography for plutonium content. All burros received the full 161-day exposure. Ten sheep were distributed among the three field positions on the 32nd day, at which time four additional dogs were placed at the middle position (100-line). All late animals stayed until the end of the maximum exposure period.

ABS: Air samplers at the pattern of plutonium uptake was surprising in that statistically important numbers of acute and chronic animals showed significant bone burdens in an exposure situation for which lung alone was to have been the critical organ. This outcome was most unusual for acute animals sacrificed less than four hours postdetonation. In general, however, all uptakes were less than the forecast amounts. The factor of 100 difference between ground-level contamination at near and far chronic stations brought uptake differences of less than a factor of ten to indicate that airborne material accumulates along the upwind path. Air concentrations bear small if any relation to the "at foot" contamination for natural resuspension forces (wind).

ABS: An explanation is advanced for the fact that, in an experiment

designed to find time dependence in plutonium uptake, no tissues measured exhibited a correlation with exposure time, save GI tract and contents. The plutonium found in bone suggests some deviation from the pure oxide form (extremely insoluble in body fluids) and the presence of solubilizing influences either in early particulate formation or in animal lung. As yet no believable mechanism has been proposed. All autoradiography gave negative results.

ADNO: A077507
AUTH: WILSON R.H. ; THOMAS R.G. ; STANNARD J.N.
CLSS: U
CORP: UNIVERSITY OF ROCHESTER (ROCHESTER-NEW YORK)
DATE: 6102
DESC: Nuclear weapon safety radiological
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
REPN: WT 1511
SUJO: 2-223-100 ; 2-225-100 ; 4-838-100
TITL: BIOMEDICAL AND AEROSOL STUDIES ASSOCIATED WITH A FIELD RELEASE OF PLUTONIUM, OPERATION PLUMBBOB, TEST GROUP 57, PROGRAM 72 (U), 70 P (U)

TNFF: 8859

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WT 1511

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: WT 1513

ABS: As one of a series of group efforts covering studies of radiation hazard resulting from one-point detonation of a weapon containing plutonium, this report gives a correlation as determined by chemical analysis of fallout between alpha survey meter readings and plutonium concentration in the immediate area of detonation. Results of determination of apparent decrease of surface contamination with time are presented. Also described is the training of personnel in the definition of radiation hazard following such accidental detonation. Maps of the test area show monitoring results in addition to isoconcentration contours.

ADNO: 611240
AUTH: BUTLER R.E. ; MILLER H.M.
CLSS: U
CORP: SANDIA CORP (ALBUQUERQUE-NM)
DATE: 6201
DESC: Nuclear weapon safety radiological
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation proton alpha heavy particle L1, 4838 L1
REPN: WT 1513
PROJ: PROJECT 74
SHOT: PLUMBBOB (SERIES)

SUJO: 4-343-000 ; 4-838-100
TITL: SURFACE ALPHA MONITORING AS A METHOD OF MEASURING PLUTONIUM FALLOUT,
OPERATION PLUMBBOB, TEST GROUP 57, PROGRAM 74 (U), 39 P (U)

TNFF: 8859

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WT 1513

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INUM: WT 1541
ADNO: 360820L
AUTH: CHIMENT J.A. ; GOETZ J.L. ; FACER G.C.
CLSS: SRD-1
CORP: DEFENSE ATOMIC SUPPORT AGENCY (ALBUQUERQUE-NEW MEXICO)
DATE: 5911
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: test instruments nuclear radiation neutron
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
REPN: WT 1541
SHOT: LAPLACE
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 4-342-000 ; 4-346-000 ;
4-820-300 ; 4-820-400
TEMP: C0334 ; 51424
TITL: NEUTRON AND GAMMA RADIATION FROM SHOT LAPLACE, OPERATION PLUMBBOB,
PROGRAM 2, WEAPON TEST REPORT (U), 40 P (SRD)
TREE: 910 ; 920

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WT 1541

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INUM: WT 1542
ADNO: 611247
AUTH: PICKERING J.E. ; WILLIAMS D.B. ; MELVILLE G.S. JR. ; MCDOWELL A.A. ;
LEFFINGWELL T.P. ; ZELLMER R.W.
CLSS: U

CORP: AIR FORCE/SCHOOL OF AEROSPACE MEDICINE (BROOKS AIR FORCE BASE-TEXAS)
DATE: 6008
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
REPN: WT 1542
SHOT: WILSON ; FIZEAU
TSHO: LOW-ALT
SUJO: 3-312-100
TITL: BIOLOGICAL EFFECTS OF NUCLEAR RADIATION ON THE MONKEY (MACACA
MULATTA) TWO-YEAR EVALUATION, OPERATION PLUMBBOB, PROJECT 39.6
(SUPPLEMENT 1), WEAPON TEST REPORT (U), 51 P (U)

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WT 1542

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1619
ADNO: 357951L
AUTH: BIGGER M.M. ; RINNERT H.R. ; ZAGORITES H.A.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6103
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: WT 1619
SHOT: UMBRELLA ; WAHOO
TSHO: UW
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 9-830-000
TEMP: B9283 ; 45636
TITL: SHIPBOARD RADIATION FROM UNDERWATER BURSTS, OPERATION HARDTACK,
PROJECT 2.1 (U), 126 P (C)

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WT 1619

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1620
ADNO: 357955L
AUTH: BIGGER M.M. ; GONG J.K. ; KAWAHARA F.K. ; FULLER R.K. ; MILNE W.L. ;
COHN S.H.
CLSS: U (DECLASSD)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6112
DESC: Nuclear Test Simulation Field Programs experiment design medical
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Environment fallout arrival time
REPN: WT 1620
SHOT: UMBRELLA ; WAHOO
TSHO: UW
SUJO: 2-223-200 ; 2-223-420 ; 2-225-300 ; 3-312-200 ; 4-827-000
TEMP: B9284 ; 45721
TITL: SHIPBOARD CONTAMINANT INGRESS FROM UNDERWATER BURSTS, OPERATION
HARDTACK, PROJECT 2.2 (U), 128 P (C)

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WT 1620

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copy: 1 id: 92178-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1621
ADNO: 372424L
AUTH: EVANS E.C. III ; SHIRASAWA T.H.
CLSS: CFRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6201
DESC: Nuclear Weapon Phenomenology plumes spray domes
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology base surge
REPN: WT 1621
SHOT: WAHOO ; UMBRELLA ; WIGWAM ; BAKER(XRD)
TSHO: UW
SUJO: 2-223-200 ; 2-224-120 ; 2-224-130 ; 4-341-000 ; 4-841-000
TEMP: B9285 ; 51440
TITL: CHARACTERISTICS OF THE RADIOACTIVE CLOUD FROM UNDERWATER BURSTS,
OPERATION HARDTACK, PROJECT 2.3, WEAPON TEST REPORT (U), 429 P
(CFRD)

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WT 1621

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1623

AUTH: HANSCOME T.D. ; ALERS P.B. ; CALDWELL P.A. ; DRACHMAN R.J. GORBICS
S.G. ; HOLMGREN H.D. ; JONES E.C. ; PEARSE C.A. ; WADDEL R.C.
CLSS: SRD 1
CORP: NAVY/NAVAL RESEARCH LABORATORY (WASHINGTON-D.C.)
DATE: 6105
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: INTERMEDIATE RANGE OBSERVATION LONG RANGE OBSERVATION STRATOSPHERIC
OBSERVATION EXTRA STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY
DESC: test instruments nuclear radiation gamma L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: test instruments nuclear radiation neutron L1
REPN: WT 1623
PROJ: 2.6
SHOT: TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-710-000 ; 4-341-000 ; 4-342-000
TEMP: B9287 ; 23505
TITL: NEUTRON FLUX FROM VERY-HIGH-ALTITUDE BURSTS, OPERATION HARDTACK,
PROJECT 2.6 (U), 92 P (SRD)
TREE: 920

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WT 1623

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1625
AUTH: WHITCHER S.L. ; BUNNEY L.R. ; SOULE R.R. ; DAROZA R.A.
CLSS: SRD 1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;
LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6109
DESC: TROPOSPHERIC OBSERVATION STRATOSPHERIC OBSERVATION AIRCRAFT AND
ROCKET SAMPLING OF DEBRIS CLOUD ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L1
DESC: Nuclear Weapon Environment Fallout Particles physical
characteristics L1
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Environment Fallout Particles size distribution L9 P
64
DESC: Nuclear Weapon Environment fallout fractionation L1
REPN: WT 1625
PROJ: 2.8
SHOT: KOA ; WALNUT ; OAK
TSHO: SURFACE ; WATER SURFACE
SUJO: 2-222-200 ; 2-222-300 ; 2-223-100 ; 2-223-410 ; 2-223-500 ;
4-821-000

TEMP: B9289 ; 23506
TITL: FALLOUT MEASUREMENTS BY AIRCRAFT AND ROCKET SAMPLING, OPERATION
HARDTACK, PROJECT 2.8 (U), 89 P (SRD)

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WT 1625

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copy: 1 id: 92182-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1637

AUTH: CONRAD E.E. ; DOBRIANSKY B.J. ; SIMON A. ; TUCKER R.W. ; WIMENITZ
F.N. ; CONESC.E.

CLSS: SRD 1

CORP: DIAMOND ORDNANCE FUZE LAB (WASHINGTON, DC)

DATE: 6106

DESC: Nuclear Test Simulation Field Programs experiment design aerospace
systems L5

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses (L1)

DESC: NUCLEAR RADIATION TRANSIENTS NUCLEAR RADIATION PERMANENT DAMAGE

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1

REPN: WT 1637

PROJ: 6.3

SHOT: NUTMEG ; MAPLE ; HICKORY ; JUNIPER

SUJO: 1-110-000 ; 1-710-000 ; 3-162-000 ; 3-221-000 ; 3-229-000 ;
4-829-100

TEMP: C0283 ; 23558

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC FUZE COMPONENTS AND
MATERIALS, OPERATION HARDTACK, PROJECT 6.3 (U), 69 P (SRD)

TREE: 394

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WT 1637

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copy: 1 id: 92194-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1647

ADNO: 342537L

AUTH: DERKSEN W.L. ; CARTER J.A. ; HIRSCHMAN A. ; DELHERY G.B. ; KORBEL H.

CLSS: CFRD

CORP: NAVY/NAVAL SHIPYARD (BROOKLYN-NY)

DATE: 6009

DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: THERMAL INTERMEDIATE RANGE OBSERVATION LONG RANGE OBSERVATION ;
EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design materials
L5
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Effects materials fibers textiles L1 POPLIN SATEEN
DESC: Nuclear Weapon Effects on animals thermal burns heating L1 SKIN
SIMULENT
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5
REPN: WT 1647
PROJ: 58hto8.1 ; DASIAC holds instrumentation records
SHOT: YELLOWWOOD ; WALNUT ; TEAK ; ORANGE
TSHO: WATER SURFACE ; HI-ALT
SUJO: 1-210-000 ; 1-240-000 ; 3-242-000 ; 3-313-100 ; 4-820-700 ;
4-829-600
TEMP: C0293 ; B3156 ; B1848 ; 23559
TITL: EFFECTS ON MATERIALS OF THERMAL RADIATION FROM NUCLEAR DETONATIONS,
OPERATION HARDTACK, PROJECT 8.1 (U), 40 P (SFRD)

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WT 1647

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copy: 1 id: 92203-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1648

ADNO: 339846L

AUTH: BRUBAKER R.M. ; GAUVIN H.P. ; STAIR A.T. ; CAHILL J.P. ; BAKER D.J.
; JONES E.A. ; CARPENTER J.W.

CLSS: SRD

CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA) ; COOK
RESEARCH LABS (MORTON GROVE, IL) ; AMERICAN SCIENCE AND ENGINEERING
(CAMBRIDGE, MA)

DATE: 6110

DESC: Nuclear Weapon Environment Visible Output rate L1

DESC: Nuclear weapon test yield L9 P15

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P15

DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Ultraviolet Output rate L1

DESC: Nuclear Weapon Environment Ultraviolet Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1

DESC: TROPOSPHERIC OBSERVATION ; EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design thermal L5

DESC: Nuclear Weapon Environment Infrared Output rate L1

REPN: WT 1648

PROJ: 8.2

SHOT: YUCCA ; ORANGE ; TEAK

TSHO: HI-ALT
SUJO: 1-310-000 ; 1-340-000 ; 1-410-000 ; 1-440-000 ; 1-510-000 ;
1-540-000 ; 4-820-700 ; 4-835-000 ; 4-841-000
TEMP: C0294 ; B3129 ; B1837 ; A9742 ; 35736
TITL: THERMAL RADIATION FROM HIGH-ALTITUDE BURSTS (U), OPERATION HARDTACK,
APRIL-OCTOBER 1958, PROJECT 8.2, 90 P, (SRD)

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WT 1648

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copy: 1 id: 92204-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1650
ADNO: 360075L
AUTH: PARKER W.J. ; JENKINS R.J. ; INN E.C.Y.
CLSS: SRD 1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6006
DESC: Nuclear Weapon Environment Visible Output rate L1 spectrum L1 ; UV
output rate L1 spectrum L1
DESC: TROPOSPHERIC OBSERVATION LONG RANGE OBSERVATION ; EXPERIMENTAL
DESC: test instruments visible L1 ; IR L9 p13
REPN: WT 1650
PROJ: 58ht08.4 ; DASIAC holds spectrographs for Orange and Yucca only. For
Orange there are 2 films presumably from each of the 2 B-36 nos. 748
and 750 altho both are marked "750". The single Yucca record is
marked "750".
SHOT: YUCCA ; TEAK ; ORANGE
TSHO: HI-ALT
SUJO: 1-420-000 ; 1-440-000 ; 1-520-000 ; 1-540-000 ; 4-382-000 ;
4-383-000
TEMP: C0297 ; 23512
TITL: EARLY TIME SPECTRA OF VERY-HIGH-ALTITUDE NUCLEAR DETONATIONS,
OPERATION HARDTACK, PROJECT 8.4 (U), 27 P (SRD)

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WT 1650

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copy: 1 id: 92206-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1651 1
AUTH: ZIRKIND R.
CLSS: SRD
CORP: NAVY/BUREAU OF NAVAL WEAPONS (WASHINGTON-DC)
DATE: 6112
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 ORANGE

ONLY

DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L1 ORANGE ONLY
DESC: TROPOSPHERIC OBSERVATION ; EXPERIMENTAL
REPN: WT 1651 1
PROJ: 8.5A
SHOT: TEAK ; ORANGE ; YUCCA ; KOA
TSHO: HI-ALT ; LOW-ALT
SUJO: 1-310-000 ; 1-320-000 ; 4-820-600
TEMP: C0298 ; A9740 ; 39423
TITL: NARROW-BAND INFRARED SPECTRAL IRRADIANCE OF HIGH-ALTITUDE BURSTS
(U), OPERATION HARDTACK, PROJECT 8.5A, 52 P, (SRD)

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WT 1651 1

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1651 2
AUTH: ZIRKIND R.
CLSS: SFRD
CORP: NAVY/BUREAU OF NAVAL WEAPONS (WASHINGTON-DC)
DATE: 6205
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L1
DESC: TROPOSPHERIC OBSERVATION NO YUCCA DATA ; EXPERIMENTAL
DESC: test instruments IR L5
REPN: WT 1651 2
PROJ: 8.5B
SHOT: KOA ; TEAK ; ORANGE ; YUCCA
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-310-000 ; 4-383-000 ; 4-820-600
TEMP: C0299 ; B1830 ; A9739 ; 39424
TITL: NARROW-BAND INFRARED SPECTRAL IRRADIANCE OF HIGH-ALTITUDE BURSTS
(U), OPERATION HARDTACK, PROJECT 8.5B, 32 P, (SFRD)

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WT 1651 2

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1663
ADNO: 360137L
AUTH: MONCRIEF W.H. ; DACQUISTO M.P. ; FITZPATRICK J. ; CLAYPOOL H.A. ;
ROTHE W.E.
CLSS: SFRD-1

CORP: ARMY/WALTER REED ARMY MEDICAL CENTER (WASHINGTON-D.C.)
DATE: 6109
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Test Simulation Field Programs experiment design medical
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: EXPERIMENTAL
REPN: WT 1663
SHOT: HAMILTON ; HUMBOLDT
TSHO: SURFACE
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 2-611-000 ; 3-312-100 ;
4-827-000
TEMP: C0308 ; 51426 ; 23557
TITL: EFFECTS OF VERY-LOW-YIELD BURSTS ON BIOLOGICAL SPECIMENS (SWINE AND
MICE), OPERATION HARDTACK, PROJECT 4.2, WEAPON TEST REPORT (U), 92 P
(SFRD)

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WT 1663

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INUM: WT 1668
AUTH: KOSTOFF P.C. ; STUHLINGER E. ; KAMPMEIER H.W. ; BOEHM J.
CLSS: SRD 1
CORP: ARMY/BALLISTIC MISSILE AGENCY (REDSTONE ARSENAL-AL)
DATE: 6004
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: EXTRA STRATOSPHERIC OBSERVATION ; THEORY EXPERIMENTAL
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L9 P 55
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
PROJ: 58arexp4 ; DASIAAC holds instrumentation records Explorer TM tapes
REPN: WT 1668
SHOT: Argus 1 ; Argus 2 ; Argus 3
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-217-000 ; 5-800-000
TEMP: B9074 ; 23518
TITL: SATELLITE MEASUREMENTS, OPERATION ARGUS (U), 76 P (SRD)

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WT 1668

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1669
AUTH: BEAVERS J.L. II ; ALLEN J. JR. ; DENNIS J.L. ; WELCH J.A. JR. ;
WALTON R.B. ; WHITAKER W.A.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6105
DESC: JASON EXTRA STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY P 65
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: test instruments nuclear radiation beta electron beams L1
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
REPN: WT 1669
SHOT: ARGUS I ; ARGUS II
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 4-344-000
TEMP: B9075 ; 23497
TITL: SOUNDING ROCKET MEASUREMENTS, PROJECT JASON, OPERATION ARGUS (U), 83
P (SRD)

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WT 1669

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copy: 1 id: 92225-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1675
AUTH: REED J.W. ; GAUVIN H.P. ; CAHILL J.P. ; GRENIER J.W. ; BAKER D.J. ;
STAIR A.T.
CLSS: SRD
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA)
DATE: 6201
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P69
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1
DESC: Nuclear weapon test yield L9 P24 P68
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5
DESC: Nuclear Weapon Environment Infrared Output rate L1
DESC: Nuclear Weapon Environment Ultraviolet Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1

REPN: WT 1675
SHOT: MAZAMA ; HAMILTON ; HUMBOLDT ; QUAY ; RIO ARRIBA ; WRANGELL ;
RUSHMORE ; SANTA FE ; SANFORD ; SOCORRO
TSHO: LOW-ALT
SUJO: 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-340-000 ; 1-410-000 ;
1-440-000 ; 1-510-000 ; 1-540-000 ; 2-110-000 ; 4-820-600 ;
4-835-000 ; 4-841-000
TEMP: B9295 ; B1829 ; A9738 ; 35737
TITL: THERMAL RADIATION FROM LOW-YIELD NUCLEAR BURSTS (U), OPERATION
HARDTACK, APRIL-OCTOBER 1958, PROJECT 8.8, 108 P, (SRD)

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WT 1675

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1676
AUTH: MAHONEY J.J. ; MALONEY J.C. ; FURROW S.D. ; KILMINSTER D.T. ;
ALVARES N.J. ; DAHLSTROM T.S. ; ULBERG J.C.
CLSS: CFRD 1
CORP: CHEMICAL WARFARE LABS (EDGEWOOD MD) ; NAVAL RADIOLOGICAL DEFENSE LAB
(SAN FRANCISCO, CA)
DATE: 6006
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L5
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5
DESC: CLOSE-IN OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
REPN: WT 1676
PROJ: 8.7 ; 2.17D
SHOT: QUINCE ; FIG ; HAMILTON
TSHO: SURFACE ; LOW-ALT
SUJO: 1-210-000 ; 1-240-000 ; 2-110-000 ; 4-820-700 ; 4-841-000
TEMP: B9296 ; 23561
TITL: THERMAL RADIATION FROM VERY-LOW-YIELD BURSTS, OPERATION HARDTACK,
PROJECTS 8.7/2.12D (U), 31 P (CFRD)

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WT 1676

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copy: 1 id: 92229-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1678
AUTH: MORGENTHAU M. ; SCHUMCHYK M.
CLSS: SRD 1
CORP: ARMY/CHEMICAL CENTER (EDGEWOOD-MD)

DATE: 6012
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Fallout Particles physical
characteristics L1
DESC: LOCAL FALLOUT CLOSE-IN OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility L1
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: Nuclear Weapon Environment Fallout Particles L1
REPN: WT 1678
PROJ: 2.10
SHOT: QUINCE ; FIG
TSHO: SURFACE
SUJO: 2-222-000 ; 2-222-100 ; 2-222-200 ; 2-222-300 ; 2-222-400 ;
2-223-000 ; 2-225-100 ; 4-821-000
TEMP: B9298 ; 23563
TITL: RESIDUAL RADIATION FROM A VERY-LOW-YIELD BURST, OPERATION HARDTACK,
PROJECT 2.10 (U), 56 P (SRD)

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WT 1678

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INUM: WT 1679
AUTH: RIGOTTI D.L. ; KINCH J.W. ; MCNEILLY J.H. ; TARBOX J.L. ; KLEIN N. ;
PANKOW P.A. ; ADAMS T.R.
CLSS: SRD 1
CORP: ARMY/CHEMICAL CENTER (EDGEWOOD-MD)
DATE: 6008
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1 TANKS FOXHOLE
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: CLOSE-IN OBSERVATION SURFACE OBSERVATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
REPN: WT 1679
SHOT: HAMILTON ; HUMBOLDT ; FIG ; QUINCE
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 4-140-000
TEMP: B9299 ; 23565
TITL: NEUTRON FLUX FROM VERY-LOW-YIELD BURSTS, OPERATION HARDTACK,
PROJECTS 2.4A/2.11/2.12A (U), 74 P (SRD)
TREE: 920

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WT 1679

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INUM: WT 1681

AUTH: GRIESMER D.R. ; BURSON Z.G. ; BAKER T.P. ; DEAN P.N.

CLSS: SRD

CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)

DATE: 6010

DESC: CLOSE IN OBSERVATION SURFACE OBSERVATION ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: test instruments nuclear radiation gamma L5 TEST OF MG-3 DETECTOR

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L5

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

REPN: WT 1681

PROJ: 2.13

SHOT: HAMILTON

SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 4-341-000 ; 4-820-400

TEMP: C0309 ; B3158 ; 39427

TITL: GAMMA RADIATION AND INDUCED ACTIVITY FROM VERY-LOW-YIELD BURSTS (U),
OPERATION HARDTACK, PROJECT 2.13, 46 P, (SRD)

TREE: 910 ; 920

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WT 1681

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INUM: WT 1685

ADNO: A995198

AUTH: JACKS G.L. ; ZIMMERMAN G.C.

CLSS: U

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)

DATE: 5910

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: EXPERIMENTAL

REPN: WT 1685

SHOT: CACTUS ; BUTTERNUT ; KOA ; HOLLY ; YELLOWWOOD ; MAGNOLIA ; TOBACCO ;
ROSE ; WALNUT ; LINDEN ; ELDER ; OAK ; SEQUOIA ; DOGWOOD ; PISONIA ;
OLIVE ; PINE ; FIR ; NUTMEG ; SYCAMORE ; MAPLE ; ASPEN ; REDWOOD ;
HICKORY ; CEDAR ; POPLAR ; JUNIPER

TSHO: SURFACE ; WATER-SURFACE

SUJO: 2-223-200

TITL: RADIOLOGICAL SAFETY, OPERATION HARDTACK, REPORT TO THE SCIENTIFIC

DIRECTOR (U), 48 P (U)

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WT 1685

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INUM: WT 1689

ADNO: 357983L

AUTH: DUCKWORTH J.W. ; CHAMBERS F.W. ; CHAPMAN W.H. ; SEVERANCE R.E.

CLSS: U (DECLASSD)

CORP: NAVY/NAVAL MEDICAL RESEARCH INSTITUTE (BETHESDA-MD)

DATE: 5906

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: WT 1689

SHOT: WAHOO

TSHO: UW

SUJO: 2-223-200 ; 4-341-000

TEMP: C0310 ; 49097

TITL: SEA-WATER RADIOLOGICAL MONITORING METHODS, OPERATION HARDTACK,
PROJECT 40.1, WEAPON TEST REPORT (U), 70 P (C)

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WT 1689

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1721

ADNO: 611244

AUTH: MARTIN R.B.

CLSS: U

CORP: OFFICE OF CIVIL AND DEFENSE MOBILIZATION (BATTLE CREEK-MI)

DATE: 5911

DESC: test instruments nuclear radiation dosimeters radiaes L1 FALLOUT

DOSIMETER

DESC: EXPERIMENTAL

REPN: WT 1721

SUJO: 4-346-000

TITL: EVALUATION OF AERIAL SURVEY METER V-780, OPERATION HARDTACK, PROJECT
70.1 (U),40 P (U)

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WT 1721

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1725
AUTH: AUXIER J.A. ; CHEKA J.S. ; SANDERS F.W.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)
DATE: 6103
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground components L1
EFFT: NEUTRON ; GAMMA
REPN: WT 1725
SHOT: MORA ; LEA ; SOCORRO
TSHO: LOW-ALT
SUJO: 3-251-100
TITL: ATTENUATION OF WEAPONS RADIATION--APPLICATION TO JAPANESE HOUSES;
OPERATION HARDTACK APRIL-OCTOBER 1958, PROGRAM 39 (U), 92 P., (U)
TREE: 411 ; 412

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WT 1725

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INUM: WT 1742
AUTH: BEHRENS W.V. ; SHAULL J.M.
CLSS: SRD 1
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)
DATE: 6105
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: NEUTRON GAMMA NUCLEAR RADIATION PERMANENT DAMAGE ; EXPERIMENTAL
REPN: WT 1742 ; DASA 53838
PROJ: 6.3A
SHOT: NUTMEG ; YELLOWWOOD ; MAPLE ; HICKORY
TSHO: LOW-ALT
SUJO: 3-221-000
TEMP: B9305 ; 39304
TITL: EFFECTS OF NUCLEAR RADIATION ON SEMICONDUCTOR DEVICES, OPERATION
HARDTACK, PROJECT 6.3A (U), 24 P, (SRD)
TREE: 310

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WT 1742

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1830

CLASS: U
CORP: PUBLIC HEALTH SERVICE, OFF-SITE RADIOLOGICAL SAFETY ORGANIZATION
DATE: 6206
REPN: WT 1830
TITL: OFF-SITE REPORT OF THE EVENT OF MARCH 5, 1962; PROJECT DANNY BOY
(U), 48 P., (U)

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WT 1830

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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